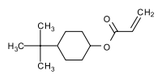
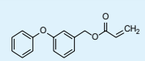
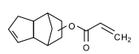
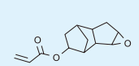
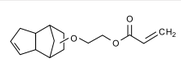
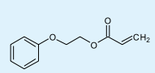
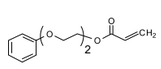
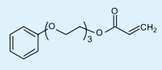
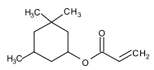
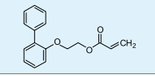
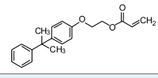
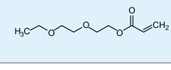
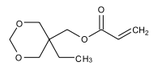
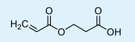
symbase

Portfolio Symbase Wood

Monomery / Oligomery / Fotoinicjatory

MONOMERS

MONOFUNCTIONAL MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Typical Physical & Chemical Properties									Regulatory Status	
				Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Tg (℃)	REACH	TSCA
EM105	Tert-Butylcyclohexyl Acrylate TBCHA 	·Low shrinkage ·Low odor ·Good flexibility	Clear liquid	60	0.5	0.92~0.96	5~15	1.464	100~300	28.8	210	65℃	-	V
EM2050	M-Phenoxybenzyl Acrylate MPOBA 	·High gloss ·High refractive index ·Low volume shrinkage	Clear liquid	60	0.5	1.12~1.15	13~20	1.565	100~300	40.2	254	6℃	-	-
EM2051	Dicyclopentenyl Acrylate DCPA 	·High Tg ·Good adhesion	Clear liquid	200	0.5	1.15~1.16	70~100	1.51~1.52	200~500	-	220	120℃	-	-
EM2051EP	Oxa-Dicyclopentanyl Acrylate Oxa-DCPA 	·Low odor ·Dual curing ·High curing speed ·Good adhesion	Clear liquid	200	0.5	1.15~1.16	70~100	1.51~1.52	200~500	-	220	-	-	-
EM2052	Dicyclopentenyloxyethyl Acrylate DCPEA 	·Good adhesion ·Good flexibility	Clear liquid	100	1	1.08~1.10	15~25	1.499	700~900	36.0	248	10~15℃	-	V
EM210	2-Phenoxy Ethyl Acrylate PHEA 	·Low viscosity ·Good solvency ·High reactivity ·Suitable for screen ink	Clear liquid	60	0.5	1.10~1.11	5~15	1.515	200~600	38.4	192	7℃	R	V
EM2101-HP	Ethoxylated Phenoxyl Acrylate PH2EOA 	·Low viscosity ·Good solvency ·High reactivity ·Low skin irritation	Clear liquid	80	1	1.10~1.12	5~25	1.505~1.515	550~850	-	236	-	-	-
EM2103	Ethoxylated Phenoxyl Acrylate PH3EOA 	·Low viscosity ·Good solvency ·High reactivity ·Low skin irritation	Clear liquid	60	0.5	1.10~1.13	15~35	1.503	400~600	40.2	280	-	-	V
EM2104	3,3,5-Trimethyl Cyclohexyl Acrylate TMCHA 	·High Tg ·Low shrinkage ·Good adhesion ·Low surface tension	Clear liquid	60	0.5	0.91~0.95	2~8	1.453	100~300	27.1	196	43℃	-	V
EM2105	Ortho-Phenyl Phenoxy Ethyl Acrylate OPPEA 	·High gloss ·High refractive index ·Low volume shrinkage	Clear liquid	100	0.5	1.12-1.15	100~200	1.575	100~300	40.5	268	33℃	-	V
EM2107	Cumyl Phenoxyl Ethyl Acrylate CPEA 	·High gloss ·High refractive index ·Low volume shrinkage	Clear liquid	100	0.5	1.09~1.11	130~170	1.552	100~300	39.6	310	-	-	-
EM211	2-(2-Ethoxyethoxy) Ethyl Acrylate EOEOEA 	·Low shrinkage ·Good flexibility ·Good solvency	Clear liquid	60	0.5	1.01~1.03	3~8	1.436	300~600	31.2	188	-56℃	-	V
EM212	Cyclic Trimethylolpropane Formal Acrylate CTFA 	·Low odor ·High hardness ·Fast curing speed ·Good abrasion resistance ·Good chemical resistance	Clear liquid	100	0.5	1.08~1.11	12~18	1.462	100~300	35.5	200	14℃	-	V
EM213	2-Carboxylethyl Acrylate β-CEA 	·Good adhesion ·Good flexibility ·Acid functional group	Clear liquid	200	340~370	1.214	70~110	-	900~1,100	-	144	-	-	V

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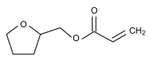
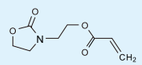
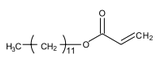
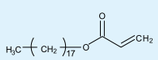
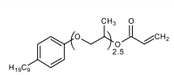
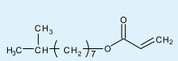
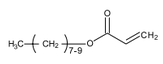
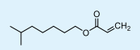
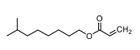
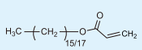
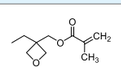
EM214	Tetrahydrofurfuryl Acrylate THFA 	·Good weatherability ·Good chemical resistance ·Excellent adhesion on PC substrates	Clear liquid	20	0.5	1.06~1.07	4~6	1.455	600	34.9	154	-15℃	-	V
EM2142	2-(2-oxo-3-oxazolidinyl)ethyl acrylate 	·Low odor ·Good hydrophilic ·High curing speed ·Good adhesion	Clear liquid	200	0.2	1.10~1.30	30~60	1.480~1.490	300~600	-	185	-	-	-
EM215	Lauryl Acrylate LA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	100	0.5	0.86~0.88	4~8	1.442	150~250	29.0	240	-30℃	-	V
EM218	Stearyl Acrylate SA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Solid	60	0.5	-	-	-	150~250	-	324	46℃	-	V
EM2181	Propoxylate Nonylphenol Acrylate NP2.5POA 	·Low shrinkage ·Good adhesion ·Good flexibility	Clear liquid	100	0.5	0.98~0.99	100~150	1.489	400~600	32.9	419	-20℃	-	V
EM219	Isodecyl Acrylate ISODA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.2	0.85~0.95	2~8	1.438	100~300	27.1	211	-58℃	-	V
EM2191	C8-C10 Acrylate ODA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.5	0.86~0.89	2~8	1.434	200~500	27.1	184~212	-56℃	-	V
EM2192	Isooctyl Acrylate IOA 	·Low viscosity ·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.1	0.86~0.89	2~8	-	100~200	-	184	-60℃	-	V
EM2193	Isononyl Acrylate INAA 	·Low viscosity and low shrinkage ·Good flexibility and good weatherability ·Good water resistance	Clear liquid	60	0.1	-	2~8	-	100~200	-	198	-60℃	-	-
EM254	C16-C18 Acrylate 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.2	-	9~35	-	50~150	-	282~310	-	-	v
EM3060-T	(3-Ethyloxetane-3-yl)methyl Methacrylate OXMA 	·Low viscosity ·Good solvency ·Cation curing	Clear liquid	30	-	1.02	2~8	1.454	100~140	32.4	184	-	-	-

MONOFUNCTIONAL MONOMERS

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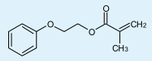
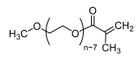
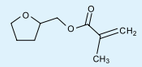
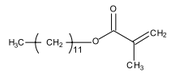
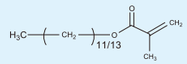
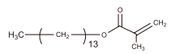
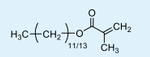
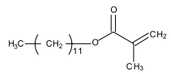
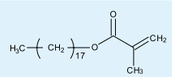
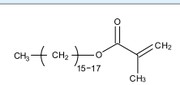
				Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Tg (℃)	REACH	TSCA
EM310	2-Phenoxy Ethyl Methacrylate PHEMA 	·Low viscosity ·Good solvency ·High reactivity	Clear liquid	60	0.5	1.06~1.08	5~15	1.511	200~600	38.3	206	47℃	-	V
EM3105	Methoxy Polyethylene Glycol(350) Methacrylate MPEG(350)MA 	·Hydrophilic properties ·Good flexibility	Yellow clear liquid	3 (Gardner)	0.1% as MAA	-	-	-	4,500-5,500	-	418	-60℃	-	V
EM314	Tetrahydrofurfuryl Methacrylate 	·Good weatherability ·Good solvent resistance ·Good adhesion on plastic substrates	Clear liquid	30	0.5	1.04~1.05	4~10	1.458	600	34.0	170	47℃	-	V
EM315	Lauryl Methacrylate LMA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.5	0.86~0.89	4~8	1.441	900~1,100	28.9	254	-60℃	-	V
EM315C-LM	Lauryl Methacrylate (C12/C14 mixture) LMA (C12/C14 mixture) 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.2	0.86~0.89	4~8	-	100~150	-	254~282	-	-	v
EM3154	Tetradecyl methacrylate 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.1	0.86~0.89	4~8	1.448	75~125	-	282	-	-	v
EM315C	Lauryl Methacrylate (C12/C14 mixture) LMA (C12/C14 mixture) 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.2	0.86~0.89	-	-	600~800	-	254~282	-60℃	-	V
EM315-LM	Lauryl Methacrylate LMA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Clear liquid	60	0.5	0.86~0.89	4~8	1.441	100~300	28.9	254	-60℃	-	V
EM35	Stearyl Methacrylate SMA 	·Low shrinkage ·Good flexibility ·Good weatherability ·Good water resistance	Solid	100	0.5	-	-	-	230~330	-	338	38℃	-	V
EM354	C16-C18 Methacrylate 	·Low shrinkage ·Good flexility ·Good weatherability ·Good water resistance	Solid or Clear liquid	60	0.5	0.86~0.87	9~35	1.4503	60~200	29.4	296~324	-	-	V

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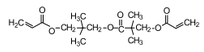
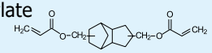
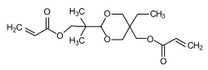
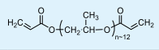
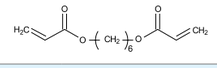
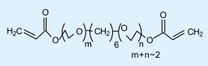
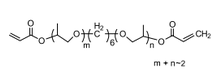
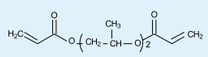
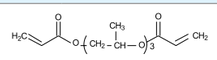
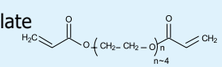
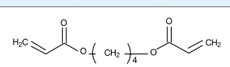
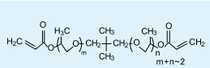
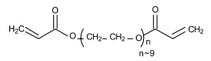
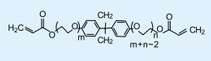
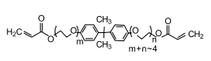
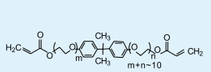
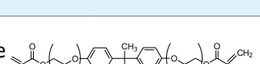
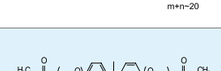
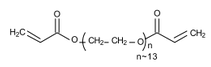
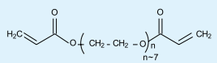
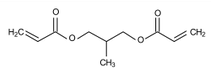
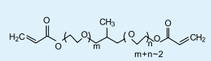
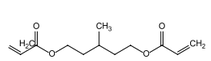
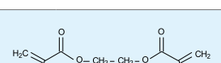
													REACH	TSCA
EM70	Isobornyl Acrylate IBOA	·Good adhesion ·Good toughness ·Excellent abrasion resistance ·Good water and heat resistance	Clear liquid	50	0.2	0.98~1.00	5~15	1.474	80~120	29.5	208	72℃	-	V
EM71	Cyclohexyl Methacrylate CHMA	·Chemical resistance ·Harness ·Hydrolytic stability ·Weatherability ·Scratch resistance	Clear liquid	50	0.5	0.97~0.98	1~5	1.457	100	30.5	168	105℃	-	V
EM75	Benzyl Acrylate BA	·Low viscosity ·Good solvency ·High reactivity	Clear liquid	100	0.5	1.05~1.07	3~6	1.517	100~250	36.3	162	11℃	-	V
EM77DN	Benzyl Methacrylate BZMA	·Low viscosity ·Good solvency ·High refraction index	Clear liquid	50	0.5	1.03~1.05	2~7	1.51~1.52	180~220	34.7	176	53℃	-	V
EM90	Isobornyl Methacrylate IBOMA	·Good adhesion ·Good toughness ·Excellent abrasion resistance ·Good water and heat resistance	Clear liquid	30	0.5	0.97~0.99	2~10	1.474	120~180	29.4	222	96℃	-	V
EM93-C	Dicyclopentanyl Methacrylate HDCPMA	·Low moisture absorption ·Heat resistant ·Good weatherability ·Adhesion	Clear liquid	100	0.5	1.03~1.05	7~17	1.491	20~80	-	220	-	-	-
EM96P	2-Ethylhexyl Methacrylate EHMA	·Adhesion ·Flexibility ·Hydrophobicity	Clear liquid	50	0.5	0.87~0.89	3~7	1.439	100	27.6	198	-	-	V

DIFUNCTIONAL MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Typical Physical & Chemical Properties: Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Tg (℃)	Regulatory Status: REACH	Regulatory Status: TSCA
EM2202	Hydroxypivalyl Hydroxypivalate Diacrylate HPHPDA 	·Low irritation ·Good solvency ·Good flexibility ·Good water resistance ·Improvement for adhesion on metals	Clear liquid	100	0.5	1.04~1.06	15~35	1.453	400~600	32.0	312	-	-	V
EM2204	Tricyclodecane Dimethanol Diacrylate DCPDA 	·Good toughness and hardness ·Good heat and chemical resistance ·Excellent low shrinkage and curing speed	Clear liquid	100	0.5	1.09~1.11	110~150	1.501	500~800	37.9	304	-	-	V
EM2205	Dioxane Glycol Diacrylate DOGDA 	·High Tg ·Fast cure speed ·Good heat and chemical resistance ·Low volume shrinkage (after curing) ·Improved adhesion on non-porous substrates	Clear liquid	60	0.5	1.07~1.09	250~450	1.470	100~300	34.2	326	-	-	V
EM2206	Di-Functional Acrylate Monomer -	·High refractive index ·Good thermal resistance	Clear liquid	100	0.5	1.155~1.165	1,500~2,500	1.589	400~600	42.5	-	-	-	-
EM2206-2	Di-Functional Acrylate Monomer -	·High refractive index ·Good thermal resistance	Clear liquid	100	0.5	-	15,000~30,000	1.600	300~700	-	-	-	-	-
EM2208	Polypropylene Glycol (700) Diacrylate PPG(700)DA 	·Low odor ·Good flexibility	Clear liquid	80	0.5	1.012~1.016	60~75	-	100~300	-	836	-30℃	-	-
EM2209	Di-Functional Acrylate Monomer -	·High refractive index ·Good thermal resistance	Clear liquid	100	0.5	1.18~1.20	100,000~150,000	1.610~1.620	-	-	-	-	-	-
EM2209-1	Di-Functional Acrylate Monomer -	·High refractive index ·Good thermal resistance ·Low viscosity	Clear liquid	150	1	1.12~1.14	80~180	1.600~1.610	-	40.2	-	-	-	-
EM221	1,6-Hexanediol Diacrylate HDDA 	·Good weatherability ·Good adhesion on plastic substrates ·Good solvency on acrylate oligomers	Clear liquid	60	0.2	1.01~1.03	5~10	1.455	100~250	34.5	226	-	R	V
EM2211	Ethoxylated 1,6-Hexanediol Diacrylate HD2EODA 	·Low skin irritation ·Low volatility and viscosity	Clear liquid	70	0.5	1.04~1.07	15~20	1.459	100~300	37.0	314	-	-	V
EM2216	Propoxylated 1,6-Hexanediol Diacrylate HD2PODA 	·Good solvency ·Good flexibility ·Low irritation ·Good yellowing resistance	Clear liquid	100	0.5	1.01~1.02	15~18	1.450-1.460	200~300	-	342	-	-	v
EM222	Dipropylene Glycol Diacrylate DPGDA 	·Fast cure speed ·Excellent solvency ·Low volatility and viscosity	Clear liquid	60	0.5	1.04~1.10	7~13	1.449	400~600	32.4	242	-	R	V
EM223	Tripropylene Glycol Diacrylate TPGDA 	·Good flexibility ·Low volatility and viscosity	Clear liquid	50	0.5	1.035~1.05	8~16	1.448	600 max.	32.0	300	-	R	V
EM224	Polyethylene Glycol (200) Diacrylate PEG(200)DA 	·Low volatility ·Good flexibility ·Low skin irritation	Clear liquid	70	0.5	1.08~1.13	10~30	1.462	600 max.	39.0	308	-	R	V
EM2241	1,4-Butanediol Diacrylate 1,4-BDDA 	·Hydrophobic ·High reactivity ·Good solvency	Clear liquid	100	0.5	1.05~1.07	5~10	1.454	100~300	34.8	198	-	-	V
EM2251	Propoxylated Neopentyl Glycol Diacrylate NPG2PODA 	·Improved flexibility ·Improved adhesion ·Low surface tension ·Low volume shrinkage in polymerization	Clear liquid	80	0.5	1.00~1.03	10~20	1.446	200~500	30.2	328	-	-	V

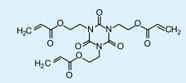
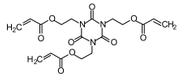
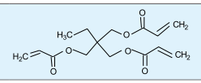
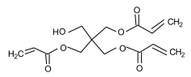
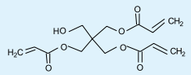
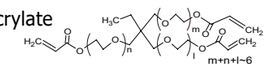
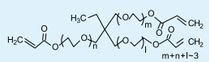
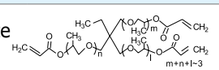
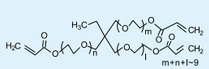
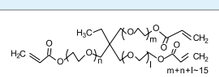
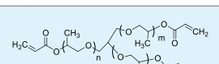
DIFUNCTIONAL MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Typical Physical & Chemical Properties								
				Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status
												REACH / TSCA
EM226	Polyethylene Glycol (400) Diacrylate PEG(400)DA 	·Low volatility ·Water soluble ·Good flexibility	Clear liquid	100	0.5	1.11~1.12	30~70	1.467	400~600	40.0	508	R / V
EM2260	Ethoxylated Bisphenol-A Diacrylate BPA2EODA 	·Low odor ·High hardness ·High refractive index ·Good solvent resistance	Clear liquid (60℃)	100	0.5	-	-	1.550	100~300	-	424	- / V
EM2261	Ethoxylated Bisphenol-A Diacrylate BPA4EODA 	·Low odor ·High hardness ·High refractive index ·Good solvent resistance	Clear liquid	70	0.5	1.13~1.15	800~1,300	1.536	100~300	42.9	512	- / V
EM2265	Ethoxylated Bisphenol-A Diacrylate BPA10EODA 	·Low odor ·Good flexibility ·Low skin irritation ·Excellent balance of hydrophobic ·Hydrophilic properties	Clear liquid	100	0.5	1.11~1.17	350~800	1.518	100~300	43.0	776	R / V
EM2266	Ethoxylated Bisphenol-A Diacrylate BPA20EODA 	·Low odor ·Good flexibility ·Low skin irritation ·Hydrophilic properties	Clear liquid	60	0.5	1.125~1.140	500~700	1.500	100~400	-	1216	- / V
EM2269	Ethoxylated Bisphenol-A Diacrylate BPA30EODA 	·Low odor ·Good flexibility ·Low skin irritation ·Water soluable	Clear liquid	60	0.5	1.125-1.140	400~900	1.492	100~400	-	1656	- / V
EM227	Polyethylene Glycol (600) Diacrylate PEG(600)DA 	·Low volatility ·Water soluble ·Good flexibility	Clear liquid	100	0.5	1.11~1.14	80~120	1.467	400~600	41.4	708	R / V
EM228	Polyethylene Glycol (300) Diacrylate PEG(300)DA 	·Low volatility ·Good flexibility ·Low skin irritation	Clear liquid	50	0.5	1.11~1.12	25~45	1.464	400~600	39.0	408	R / V
EM2280	2-Methyl-1,3-Propanediol Diacrylate MPDDA 	·Excellent solvency ·High reactivity	Clear liquid	100	0.5	1.04~1.06	5~10	1.454	100~300	31.7	198	- / -
EM2288	Ethoxylated 2-Methyl-1,3-Propanediol Diacrylate MPD2EODA 	·Low odor ·Good flexibility ·Low skin irritation	Clear liquid	100	0.5	1.04~1.08	13~20	1.457	300~500	35.0	286	- / -
EM2295	3-Methyl-1,5-Pentandiol Diacrylate 	·Low viscosity ·Good weatherability ·Good adhesion to plastic ·Crystallization resistance at low temperatures	Clear liquid	60	0.5	1.00~1.05	4~10	1.455	100~300	32.5	226	R / V
EM320	Ethylene Glycol Dimethacrylate EGDMA 	·Good heat resistance ·Good weatherability ·Good abrasion resistance ·Good chemical resistance	Clear liquid	60	2	1.05~1.07	3~8	1.454	100~300	31.7	198	- / V

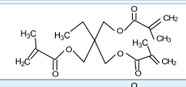
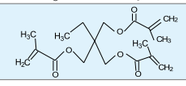
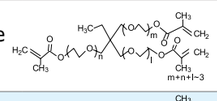
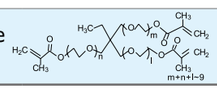
DIFUNCTIONAL MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Typical Physical & Chemical Properties: Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status: REACH	Regulatory Status: TSCA
EM320-T	Ethylene Glycol Dimethacrylate EGDMA	·Good heat resistance ·Good weatherability ·Good abrasion resistance ·Good chemical resistance	Clear liquid	30	0.5	1.05~1.07	-	1.454	100	31.7	198	-	V
EM3206	Tricycloodecane Dimethanol Dimethacrylate TCDMA	·High Tg ·Good abrasion resistance	Clear liquid	200	0.5	1.07~1.09	80~120	1.503	500~800	-	232	-	V
EM3230	Tripropylene Glycol Dimethacrylate TPGDMA	·High reactivity ·Low odor and skin irritation	Clear liquid	50	0.5	1.01~1.02	6~16	1.450	400~600	-	328	-	V
EM324	Polyethylene Glycol (200) Dimethacrylate PEG(200)DMA	·Good flexibility ·Low skin irritation	Clear liquid	60	0.1	1.07~1.09	10~18	1.460	200~300	34.6	336	R	V
EM326	Polyethylene Glycol (400) Dimethacrylate PEG(400)DMA	·Hydrophilic ·Good flexibility ·Low skin irritation	Clear liquid	60	0.5	1.09~1.11	30~40	1.464	400~600	38.0	536	R	V
EM3241	1,4-Butanediol Dimethacrylate BDMA	·Good solvency ·Good reactivity ·Good hydrophobicity ·Low irritant	Clear liquid	100	0.5	1.01~1.03	4~8	1.45~1.46	70~150	-	226	-	V
EM3260	Ethoxylated Bisphenol-A Dimethacrylate BPA2EODMA	·High reactivity ·High hardness ·High refractive index ·Good abrasion resistance ·Good chemical resistance	Clear liquid	100	0.5	1.11~1.13	900~1,300	1.540	100~300	38.7	452	-	V
EM3261	Ethoxylated Bisphenol-A Dimethacrylate BPA4EODMA	·High reactivity ·Good heat resistance ·Low skin irritation ·Low odor and volatility	Clear liquid	60	0.5	1.11~1.13	500~800	1.532	100~250	39.4	540	-	V
EM3265	Ethoxylated Bisphenol-A Dimethacrylate BPA10EODMA	·Low volatility ·High reactivity ·Good heat resistance	Clear liquid	100	0.5	1.11~1.13	350~450	1.511	100~250	41.9	804	R	V
EM3267	Ethoxylated Bisphenol-A Dimethacrylate BPA17EODMA	·Low volatility ·High reactivity ·Good heat resistance	Clear liquid	100	0.1	1.118~1.128	430~530	-	90~110	-	1112	-	v
EM327	Polyethylene Glycol (600) Dimethacrylate PEG(600)DMA	·Water soluble ·Good flexibility ·Low skin irritation	Clear liquid	30	0.15	1.10~1.11	55~75	1.466	70~150	38.9	736	R	V
EM328	Triethylene Glycol Dimethacrylate TEGDMA	·Low skin irritation ·Good heat and chemical resistance	Clear liquid	80	0.5	1.07~1.08	5~15	1.458	300 max.	34.7	286	-	V
EM329	Diethylene Glycol Dimethylate DEGDMA	·Good solvency ·Low skin irritation ·Good abrasion and water resistance ·Good hardness and impact strength	Clear liquid	100	0.5	1.055~1.075	5~10	1.457	500~700	33.8	242	-	V
EM39	2-Hydroxyethyl Methacrylate Phosphate HEMAP	·Excellent adhesion to metals	Clear liquid	2(G)	280~300	1.27~1.29	1,000~1,300	1.464	-	35.3	245	-	V

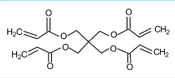
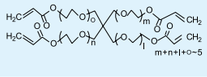
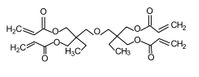
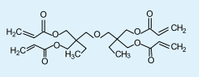
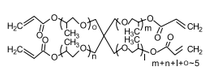
TRIFUNCTIONAL MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status	
												REACH	TSCA
			Typical Physical & Chemical Properties										
EM2305	Trifunctional Acid Ester -	·Light color ·Low viscosity ·Good chemical resistance ·Improvement excellent adhesion on metals	Yellow liquid	5(G)	150-190	1.18~1.20	240~350	1.469	-	36.3	266	-	V
EM2308	Tris(2-Hydroxy Ethyl) Isocyanurate Triacrylate THEICTA 	·Excellent hardness ·Good impact strength ·Excellent abrasion resistances ·Excellent water and chemical resistance	Clear or Slight haze	1(G)	0.5	-	-	-	300~600	-	423	-	V
EM2308-1	Tris(2-Hydroxy Ethyl) Isocyanurate Triacrylate THEICTA 	·Excellent hardness ·Good impact strength ·Excellent abrasion resistances ·Excellent water and chemical resistance	Clear liquid	80	0.5	1.14~1.17	300~400	1.480	600	36.5	-	-	V
EM231	Trimethylolpropane Triacrylate TMPTA 	·High gloss and hardness ·Good abrasion resistance ·High reactivity and crosslink density	Clear liquid	60	0.2	1.09~1.12	70~110	1.472	100~300	35.0	296	R	V
EM235	Pentaerythritol Triacrylate, PET3A 	.Fast curing rate .Excellent hardness .High crosslink density .Excellent solvent resistance	Clear liquid	80	0.5	1.168~1.182	400~550	1.483	400~600	38.0	298	R	V
EM235-1	Pentaerythritol Triacrylate PET3A 	·High Purity ·Fast curing speed ·Excellent hardness ·High crosslink density ·Excellent solvent resistance	Clear liquid	30	0.5	1.168~1.182	400~600	1.483	400~600	38.0	298	R	V
EM2376	Ethoxylated Trimethylolpropane Triacrylate TMP6EOTA 	.Low skin irritation .Excellent flexibility .Fast surface curing .Low volume shrinkage	Clear liquid	60	0.2	1.100~1.115	60~100	1.465~1.475	400~600	-	560	-	v
EM2380	Ethoxylated Trimethylolpropane Triacrylate TMP3EOTA 	·Good hardness ·Low skin irritation ·More flexible than EM231	Clear liquid	50	0.2	1.101~1.109	50~70	1.469	180~350	36.9	428	R	V
EM2381	Propoxylated Trimethylolpropane Triacrylate TMP3POTA 	·Good flexibility ·Low skin irritation ·Good water resistance	Clear liquid	60	0.3	1.04~1.066	70~100	1.459	400~600	32.8	470	-	V
EM2382	Ethoxylated Trimethylolpropane Triacrylate TMP9EOTA 	·Low skin irritation ·Excellent flexibility ·Fast surface curing ·Low volume shrinkage	Clear liquid	60	0.5	1.09~1.12	80~110	1.470	200~380	39.1	692	R	V
EM2386	Ethoxylated Trimethylolpropane Triacrylate TMP15EOTA 	·Water soluble ·Good flexibility ·Low skin irritation	Clear liquid	60	0.5	1.105~1.124	120~160	1.470	140~350	41.1	910	-	V
EM2387	Propoxylated Glyceryl Triacrylate G3.5POTA 	·Fast curing speed ·Low skin irritation ·Good pigment wetting ·Good hardness and flexibility	Clear liquid	100	0.5	1.08~1.11	70~100	1.461	200~500	33.9	457	R	V

TRIFUNCTIONAL MONOMERS

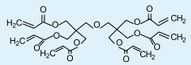
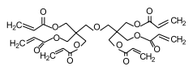
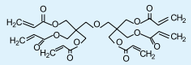
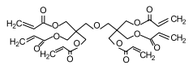
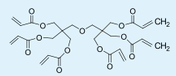
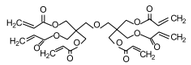
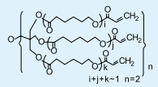
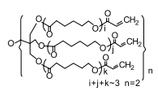
ETERMER®	Chemical Description	Characteristics	Appearance	Typical Physical & Chemical Properties: Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status: REACH	Regulatory Status: TSCA
EM331	Trimethylolpropane Trimethacrylate TMPTMA 	·High crosslink density ·Good heat and solvent resistance ·Good hardness and scratch resistance	Clear liquid	100	0.2	1.06~1.07	35~50	1.471	150~400	32.2	338	R	V
EM331-HQ	Trimethylolpropane Trimethacrylate TMPTMA 	·High crosslink density ·Good heat and solvent resistance ·Good hardness and scratch resistance	Clear liquid	100	0.2	1.06~1.07	35~50	1.471	80~150(HQ)	32.2	338	R	V
EM3380	Ethoxylated Trimethylolpropane Trimethacrylate TMP3EOTMA 	·Low volatility ·Good toughness ·Low skin irritation ·High crosslink density	Clear liquid	80	0.5	1.06~1.08	25~45	1.469	100~300	36.2	470	-	V
EM3382	Ethoxylated Trimethylolpropane Trimethacrylate TMP9EOTMA 	·Low volatility ·Good toughness ·Low skin irritation	Clear liquid	50	0.5	1.085~1.095	60~90	1.470	250~450	38.4	734	-	V

MULTI-FUNCTIONAL MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Typical Physical & Chemical Properties: Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status: REACH	Regulatory Status: TSCA
EM241	Pentaerythritol Tetraacrylate PET4A 	·Low volatility ·High reactivity ·High crosslink density	Solid or Clear liquid	100	0.5	1.17~1.18	400~650	1.483	400~600	37.6	352	-	V
EM2411	Ethoxylated Pentaerythritol Tetraacrylate PET5EO4A 	·High reactivity ·Low skin irritation ·High crosslink density ·More flexible than EM241	Clear liquid	100	0.5	1.14~1.16	120~170	1.471	100~300	38.6	572	-	V
EM242	Ditrimethylolpropane Tetraacrylate DiTMP4A 	·Fast cure speed ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	100	0.5	1.095~1.105	400~700	1.476	400~600	35.0	482	R	V
EM242HW	Ditrimethylolpropane Tetraacrylate DiTMP4A 	·Fast cure speed ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	50	0.5	1.10~1.12	750~850	1.476	400~600	35.0	482	R	V
EM2421	Propoxylated Pentaerythritol Tetraacrylate PET5PO4A 	·High reactivity ·Low skin irritation ·Good weatherability ·High crosslink density	Clear liquid	100	0.5	1.07~1.09	180~240	1.462	300~500	33.1	642	-	-

MULTI-FUNCTIONAL MONOMERS

Typical Physical & Chemical Properties

ETERMER®	Chemical Description	Characteristics	Appearance	Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status	
												REACH	TSCA
EM263	Dipentaerythritol Hexaacrylate DPHA 	·High reactivity ·For LPSM application ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	50	0.5	1.17~1.19	5,000~7,000	1.487	400~600	42.0	578	R	V
EM264	Dipentaerythritol Hexaacrylate DPHA (low solvent, 10 ppm max) 	·High reactivity ·Low solvent content ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	50	0.5	1.17~1.19	5,000~7,000	1.487	400~600	42.0	578	R	V
EM265	Dipentaerythritol Hexaacrylate DPHA 	·High reactivity ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	50	0.5	1.17~1.19	5,000~7,000	1.487	400~600	42.0	578	R	V
EM266	Dipentaerythritol Hexaacrylate DPHA 	·High viscosity ·High reactivity ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	50	0.5	1.18~1.20	10,000~14,000	1.487	400~600	44.0	578	R	V
EM266HSM	Dipentaerythritol Hexaacrylate DPHA 	·High viscosity ·High reactivity ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	100	0.5	1.18~1.20	10,000~20,000	-	400~600	-	567	R	V
EM267	Dipentaerythritol Hexaacrylate DPHA 	·High reactivity ·Electronic grade ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	50	0.1	1.18~1.19	5,000~7,000	1.487	350~600	42.0	578	R	V
EM2692	2 Mole Caprolactone Modified Dipentaerythritol Hexaacrylate DP2CAHA 	·High reactivity ·Electronic grade ·High crosslink density ·More flexible than EM265 ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	100	1.0	1.15~1.17	1,500~2,500	1.484	1,000	39.9	806	-	V
EM2696	6 Mole Caprolactone Modified Dipentaerythritol Hexaacrylate DP6CAHA 	·High reactivity ·High crosslink density ·More flexible than EM265 ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	100	1.0	1.12~1.15	900~1,500	1.480	1,000	40.3	1262	-	V

TOLUENE FREE MONOMERS

ETERMER®	Chemical Description	Characteristics	Appearance	Color (APHA)	Acid Value (mg KOH/g)	Sp.Gravity (at 25℃)	Viscosity (cps at 25℃)	RI (nD at 25℃)	Inhibitor (MEHQ ppm)	Surface Tension	Mw g/mole	Regulatory Status	
												REACH	TSCA
				Typical Physical & Chemical Properties									
EM221-TF	1,6-Hexanediol Diacrylate HDDA	·Good weatherability ·Good adhesion on plastic substrates ·Good solvency on acrylate oligomers	Clear liquid	60	0.2	1.01~1.03	5~10	1.455	100~250	34.5	226	R	V
EM222-TF	Dipropylene Glycol Diacrylate DPGDA	·Fast cure speed ·Excellent solvency ·Low volatility and viscosity	Clear liquid	60	0.5	1.04~1.10	7~13	1.449	400~600	32.4	242	R	V
EM223-TF	Tripropylene Glycol Diacrylate TPGDA	·Good flexibility ·Low volatility and viscosity	Clear liquid	50	0.5	1.035~1.05	8~16	1.448	600 max.	32.0	300	R	V
EM2251-TF	Propoxylated Neopentyl Glycol Diacrylate NPG2PODA	·Improved flexibility ·Improved adhesion ·Low surface tension ·Low volume shrinkage in polymerization	Clear liquid	80	0.5	1.00~1.03	10~20	1.446	200~500	30.2	328	-	V
EM231-TF	Trimethylolpropane Triacrylate TMPTA	·High gloss and hardness ·Good abrasion resistance ·High reactivity and crosslink density	Clear liquid	60	0.2	1.09~1.12	70~110	1.472	100~300	35.0	296	R	V
EM2380-TF	Ethoxylated Trimethylolpropane Triacrylate TMP3EOTA	·Good hardness ·Low skin irritation ·More flexible than EM231	Clear liquid	50	0.2	1.101~1.109	50~70	1.469	180~350	36.9	428	R	V
EM2387-TF	Propoxylated Glyceryl Triacrylate G3.5POTA	·Fast curing speed ·Low skin irritation ·Good pigment wetting ·Good hardness and flexibility	Clear liquid	100	0.5	1.08~1.11	70~100	1.461	200~500	33.9	457	R	V
EM242-TF	Ditrimethylolpropane Tetraacrylate DiTMP4A	·Fast cure speed ·High crosslink density ·Good abrasion resistance ·Good chemical and water resistance	Clear liquid	100	0.5	1.095~1.105	400~700	1.476	400~600	35.0	482	R	V
EM321-TF	1,6-Hexanediol Dimethacrylate HDDMA	·Good weatherability ·Good abrasion on plastic substrates ·Good solvency on acrylate oligomers	Clear liquid	60	0.5	0.99~1.00	6~9	1.456	100~300	-	254	-	V

OLIGOMERS

WATERBORNE POLYURETHANE ACRYLATE OLIGOMER

Typical Physical & Chemical Properties

ETERCURE®	Chemical Description	Characteristics	Applications	Functionality (theoretical)	Appearance	Acid Value (mg KOH/g)	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
										REACH	TSCA
6166W	Waterborne Aliphatic Urethane Acrylate Dispersion	·Easy clean up ·Good adhesion ·Good toughness ·Good grain wetting ·Good color rendering ·Good chemical resistance	·Waterborne UV primer for parquet ·Waterborne UV wood basecoat	2	Milky liquid	-	<100	-	-	-	V
DR-W413S	Waterborne Aliphatic Urethane Acrylate Dispersion	·Good adhesion ·Good recoatability ·Tack-free before UV cure	·Waterborne UV ·melamine / PET / Metal primer	2	Milky liquid	-	<100	-	-	-	V
DR-W490	Waterborne Aliphatic Urethane Acrylate Dispersion	.Tin free .Fast curing seepd .Good adhesion .Good abrasion resistance	·Waterborne UV wood topcoat	6	Milky liquid	-	-	≤200	-	-	-
DR-W495	Waterborne Aliphatic Urethane Acrylate Dispersion	·Good adhesion ·High hardness ·Good chemical resistance ·Tack-free before UV cure	·Waterborne UV wood basecoat ·Waterborne UV wood topcoat	7~8	Milky liquid	-	<100	-	-	-	V
DR-W497	Waterborne Aliphatic Urethane Acrylate Dispersion	.Good stain resistance .Good abrasion resisitance .Tack free before UV curing .Easy matting	·Waterborne UV anti-stain coating ·Waterborne UV wood basecoat ·Waterborne UV wood topcoat	7~8	Milky liquid	-	-	≤200	-	-	-

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								
				Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
											REACH	TSCA
6101	Aliphatic Urethane Acrylate	·Low viscosity ·Good flexibility ·Good adhesion	·UV inkjet	1	Clear & Clean	1	-	20~40	-	-	-	V
6103	Aliphatic Urethane Hexaacrylate	·Excellent yellowing resistance ·Good hardness ·Fast curing speed	·UV coating with excellent weather resistance for PC car-lamp	6	Clear & Clean	1	5	3,800~5,000	159.7	93D	-	-
6106	Aliphatic Urethane Acrylate	·Excellent yellowing resistance ·Good adhesion ·Good flexibility	·UV coating with excellent weather resistance for PC car-lamp	2	Clear & Clean	1	26.3	9,000~14,000	30.4	51	-	V
611B-85	Aliphatic Urethane Acrylate Diluted in 15% HDDA	·Good yellowing resistance ·Good hardness and toughness ·Good gloss retention	·Printing and varnishing for plastics PVC,wood floor-tiles	2	Clear & Clean	1	28.4	22,000~32,000	52.9	89A	R	V
6112-100	Aliphatic Urethane Acrylate	·Good yellowing resistance ·Good toughness ·Good gloss retention	·Coatings ·Inks ·Printing and varnishing for plasticis PVC,wood floor-tiles	2	Clear & Clean	1	49.4	6,000~7,500(60℃)	47.7	96A	R	V
6112-100NT	Tin-Free Aliphatic Urethane Diacrylate	·Good yellowing resistance ·Good toughness ·Good gloss retention	·Coatings ·Inks ·Printing and varnishing for plastics PVC, wood floor-tiles	2	Clear & Clean	1	49.4	6,000~8,000(60℃)	47.7	96A	R	V
6113	Aliphatic Urethane Acrylate	·Good toughness ·Good yellowing resistance ·Improve adhesion	·Coatings ·Inks ·Adhesives	2	Clear & Clean	1	120.0	8,000~12,000	-60.8	40A	-	V
6115J-80	Aliphatic Urethane Acrylate Diluted in 20% IBOA	·Excellent weatherability ·Good flexibility ·Good gloss retention ·Low shrinkage ·Good adhesion on metal substrates	·Coatings ·Inks ·Adhesives	2	Haze	2	45.2	2,600~4,200	31.8	70A	-	V
6115T-80	Tin-Free Aliphatic Urethane Diacrylate Diluted in 20% EOEOEA	·Good flexibility ·Low shrinkage ·Good adhesion on metal substrates ·Good gloss retention	·Coatings ·Inks ·Adhesives	2	Clear & Clean	1	-	2,500~4,000	-	-	-	V
6118	Aliphatic Urethane Acrylate	·High gloss ·Good flexibility ·Fast curing speed ·Excellent chemical resistance	·UV wood and plastic coatings ·UV screen ink	2	Clear & Clean	2	21.8	22,000~32,000	-	-	-	-
61128	Aliphatic Urethane Acrylate	·UV-LED Accelerator ·Reduce thiol added ·Fast curing speed ·Good yellowing resistance ·Good toughness	·Phototherapy nail polish ·LED curing coating	2	Clean/Clear	1	6.2	10,000~30,000	45.6	75D	-	-
6121F-80	Aromatic Urethane Acrylate Diluted in 20% DPGDA	·Good elasticity and flexibility ·Good abrasion resistance ·Good adhesion ·High chemical resistance	·Overprint varnish for paper & board ·Wood finishes ·Coating for plastics ·Lithographic and screen ink vehicles	2	Clear & Clean	3	16.1	19,000~32,000	27.4	70A	-	V
6123	Aliphatic Urethane Acrylate	·Fast curing speed ·Good leveling ·Good solvent resistance ·Good weather resistance	·Plastics varnishes ·Large area spraying for plastics	2	Clear & Clean	1	51.7	10,000~15,000	51.7	96A	-	V
6126	Aliphatic Urethane Acrylate	·Good heat resistance ·Fast curing speed ·Good adhesion at high temperature	·UV non-yellowing coating for PC car-lamp	2	Clear & Clean	1	-	30,000~40,000	-	-	-	V

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties: Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status: REACH	Regulatory Status: TSCA
6130B-80	Aliphatic Urethane Acrylate Diluted in 20% HDDA	·Low odor ·High crosslink density ·Good toughness	·Coatings for paper, plastics	3	Clear & Clean	1	13.0	40,000~60,000	65.6	90A	-	V
61329	Aliphatic Urethane Acrylate	·Extra high breaking elongation ·Good yellowing resistance ·Good toughness ·Good bonding retention after HTHH aging	·UV toughening auxiliary resin for enhancing the flexibility and impact resistance of coating ·UV bonding adhesive of plactic substrates, cosmetic PE pipe ·UV Inks	2	Clear & Clean	1	469	33,000~43,000 (60℃)	-4.3	43A	-	-
61363	Aliphatic Urethane Acrylate	·Low shrinkage ·Low hardness ·High tack value and medium adhesion	·UV pressure sensitive adhesive	2	Clear & Clean	1	288	9,000~16,000	-49	5A	-	-
61365	Aliphatic Urethane Acrylate	·High adhesion ·Good holding power on high temperature ·High tack value	·UV pressure sensitive adhesive	2	Clear & Clean	1	488	5,000~7,000	-52.1	25A	-	-
61369	Aliphatic Urethane Acrylate	·Low shrinkage ·Low hardness ·High tack value and medium adhesion	·UV pressure sensitive adhesive	2	Clear & Clean	1	508	2,500~5,500	-61.2	28A	-	-
6142H-80	Aliphatic Urethane Acrylate Diluted in 20% TMP3EOTA	·Good elasticity and flexibility ·Good abrasion resistance ·Good adhesion ·Light color	·Overprint varnishes for paper & board ·Coating for wood and plastics ·UV inks ·Adhesives	2	Clear & Clean	1	-	25,000~35,000	29.5	89A	-	-
61438	Aliphatic Urethane Acrylate	·Excellent adhesion ·Excellent yellowness resistance	·UV Plastic coating ·UV Wood coating	2	Clear & Clean	1	10.6	20,000~30,000	81.7	81D	-	-
6145-100	Aliphatic Urethane Hexaacrylate	·Good elasticity and flexibility ·Good abrasion resistance ·Fast curing speed ·Good weather resistance	·Overprint varnishes for paper & board ·UV plastic coating ·UV inks	6	Clear & Clean	1	-	55,000~75,000	104.1	27D	-	V
6145-100H	Aliphatic Urethane Hexaacrylate	·Good abrasion resistance ·Good hardness	·Overprint varnishes for paper & board ·UV plastic coating ·UV inks	6	Clear & Clean	1	-	70,000~90,000	103.7	92D	-	V
6145-100NT	Tin-Free Aliphatic Urethane Hexaacrylate.	·Good abrasion resistance ·Fast curing speed ·Good hardness	·Overprint varnishes for paper & board ·UV plastic coating ·UV inks	6	Clear & Clean	1	5.0	55,000~75,000	104.1	27D	-	V
6146-100	Aromatic Urethane Hexaacrylate	·Good elasticity and flexibility ·Good abrasion resistance ·Fast curing speed ·Good solvent resistance	·Overprint varnishes for paper & board ·UV plastic coating ·UV inks	6	Clear & Clean	1	-	30,000~40,000	104.6	33D	-	V
61457	Aliphatic Urethane Hexaacrylate	· Fast curing speed · Good leveling · Good anti-cracking ability	·UV plastic coatings	6	Clear & Clean	1	<5	55,000~80,000	117	77D	-	-
61458NT	Aliphatic Urethane Hexaacrylate	· Good adhesion · Good leveling · Good pigment compatibility	·UV top coating	6	Clean & Clear	1	<5	30,000~40,000	-	-	-	-
6147	Aliphatic Urethane Hexaacrylate	·Good abrasion resistance ·Good yellowing resistance ·Good water resistance ·Excellent leveling	·Overprint varnishes for paper & board ·Coatings for PMMA, ABS ·UV inks	6	Clear & Clean	1	-	5,000~6,000	85.5	18D	-	V
6148J-75	Aliphatic Urethane Acrylate Diluted in 25% IBOA	·Excellent toughness ·Good yellowing resistance ·Improve adhesion	·Adhesives ·Screen inks ·Metal coatings	2	Clear & Clean	1	238.5	90,000~150,000	19.7	63A	R	V

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								
				Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
											REACH	TSCA
6148J-75NT	Tin-Free Aliphatic Urethane Diacrylate Diluted in 25% IBOA	·Excellent toughness ·Good yellowing resistance ·Improve adhesion ·Good abrasion resistance	·Adhesives ·Screen inks ·Metal coatings	2	Clear & Clean	1	238.5	90,000~150,000	19.7	63A	R	V
6148T-85	Aliphatic Urethane Acrylate Diluted in 15% EOEOEA	·Excellent toughness ·Excellent elongation ·Improve adhesion ·Good abrasion resistance	·Adhesives ·Screen inks ·Metal coatings	2	Clear & Clean	1	-	100,000~150,000	-23.5	21A	-	V
615-100	Polyether Polyol Based, Aliphatic Urethane Acrylate	·Excellent flexibility ·Fast curing speed ·Light color	·UV inks ·Coatings ·Adhesives ·Matt varnishes	2	Clear & Clean	1	8.1	10,000~20,000	-37.1	43A	-	V
6150-100	Aliphatic Urethane Hexaacrylate	·Excellent yellowing resistance ·Fast curing speed ·Good abrasion resistance ·Good water resistance ·Good toughness and hardness	·Screen inks ·Adhesives ·Plastic coatings	6	Clear & Clean	1	-	3,000~5,000	80.6	11D	-	V
6151	Aliphatic Urethane Acrylate	·Good leveling ·Good adhesion to ABS/PC substrate ·Good abrasion ·Good yellowing resistance	·Overprinting varnishes for paper and board ·Wood coating ·UV plastic coating ·UV inks	2	Clear & Clean	1	-	30,000~40,000	60.3	91A	-	V
6153-3	Aliphatic Urethane Acrylate	·Good elongation ·Good yellowing resistance ·Good hardness and toughness ·Excellent adhesion	·UV primer for MDF covered with melamine paper ·UV metal coating	2	Clear & Clean	1	-	4,000~4,500(60℃)	-	-	-	V
6154B-80	Aliphatic Urethane Acrylate Diluted in 20% HDDA	·Low viscosity ·Good stain resistance ·Good adhesion	·Anti-stain coatings ·UV plastic coating	2	Clear & Clean	1	-	5,000~9,000	83.6	84A	-	V
6157B-80	Aliphatic Urethane Acrylate Diluted in 20% HDDA	·Good water resistance ·Good heat resistance ·Good yellowing resistance ·Good weather resistance	·Coatings ·Inks	2	Clear & Clean	1	-	150,000~250,000	81.4	94A	-	-
6158B-80	Aliphatic Urethane Acrylate Diluted in 20% HDDA	·Good heat resistance ·Good yellowing resistance ·Good weather resistance	·Overprint varnishes for paper & board ·UV plastic coating ·UV inks	3.8	Clear & Clean	1	2.0	40,000~50,000	72.4	94A	-	-
6161-100	Aliphatic Urethane Hexaacrylate	·Fast curing speed ·Good abrasion resistance ·Good solvent resistance	·Coatings for PC,ABS and PET	6	Clear & Clean	1	-	13,000~19,000	89.1	25D	-	V
6164	Aliphatic Urethane Acrylate	·Good curing speed ·Good leveling ·High gloss	·UV plastic coating	2	Clear & Clean	0.5	-	30,000~50,000	-	-	-	-
6165	Aliphatic Urethane Acrylate	·Excellent leveling ·Good hardness ·Good anti-cracking ·Good solvent resistance	·UV WB plastic coating ·UV WB wood coating	4	Clear & Clean	1	5	1,700~4,000	-	-	-	-
6168	Aliphatic Urethane Acrylate	·Excellent flexibility ·Soft touch effect	·UV plastic coating ·UV wood coating ·Overprint varnish for paper	2	Clear & Clean	1	5.0	12,000~17,000	-8.9	-	-	V
6170	Aliphatic Urethane Acrylate	·Good leveling ·Excellent yellowing resistance	·UV plastic coating ·UV wood coating ·UV VM topcoat	4~5	Clear & Clean	1	-	1,000~3,000	-	-	-	-
6170D	Aliphatic Urethane Acrylate	·Good yellowing resistance ·Good toughness ·Excellent leveling	·UV plastic coating ·UV wood coating ·UV VM coating	4~5	Clear & Clean	1	5.0	500~1,100	86.3	-	-	-

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties							Regulatory Status	
				Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	REACH	TSCA
6172-1	Aliphatic Urethane Acrylate	·Good toughness ·Good leveling ·Good heat resistance ·Good abrasion resistance	·UV topcoat for thermal set acrylic primer (aluminum or black-color) of notebook computer	2	Clear & Clean	1	-	1,700~2,300	78.1	-	-	-
6175-3	Modified Solvent Based Urethane Acrylate	·Excellent solvent resistance ·Good sweat resistance ·Good adhesion to metal substrate	·UV topcoat for mobile phone covers, cosmetics plastic board, copper and tinplate	-	Clear & Clean	1	-	5,000~8,000	81.1	92A	-	V
61758	Modified Solvent Based Urethane Acrylate	·Excellent solvent resistance ·Good sweat resistance ·Good adhesion to metal substrate ·UV topcoat for mobile phone covers, cosmetics plastic board,copper and tinplate	·UV topcoat for mobile phone covers, cosmetics plastic board, copper and tinplate	1	Clear & Clean	1	-	5,000~10,000	-29	-	-	-
6176	Modified Solvent Based Urethane Acrylate	·Good flexibility ·Good water resistance ·Good adhesion to metal substrate ·Good pigment and dye dispersion	·UV midcoat for mobile phone covers, copper and tinplate.	-	Clear & Clean	1	-	1,300~1,700	44.6	21A	-	V
6185	Aliphatic Urethane Acrylate	·Good adhesion ·Good water resistance ·Good flexibility	·UV VM base coating	2	Clear & Clean	1	-	25,000~35,000(60℃)	-42.4	-	-	-
61856	Aliphatic Urethane Acrylate	·Good adhesion ·Good boiling water resistance ·Excellent flexibility	·UV. plastic coating ·UV V.M. primer	2	Clear & Clean	3	-	25,000~55,000 (60℃)	-	-	R	-
61857	Aliphatic Urethane Acrylate	·Good leveling ·Easily metalized ·Excellent boiling water resistance	·UV. plastic coating ·UV V.M. primer	2	Clear & Clean	3	<5	5,000~11,000	111.2	82D	-	-
6194	Aliphatic Urethane Diacrylate	·Excellent weatherability ·Excellent flexibility ·Excellent anti-cracking ·Excellent water resistance	·UV plastic coating ·UV wood coating ·UV weather resistant coating for PC car-lamp	6	Clear & Clean	1	5.0	25,000~40,000	94.0	75D	-	V
6195-100	Aliphatic Urethane Acrylate	·Good leveling ·Good abrasion resistance ·High hardness	·UV topcoat for plastic ·UV topcoat application for vacuum metallization ·UV coating for artificial marble	10	Clear & Clean	1	-	75,000~95,000	53.9	33D	-	-
6196-100	Aliphatic Urethane Acrylate	·Fast curing speed ·Good abrasion resistance	·UV VM coating ·UV plastic coating ·UV inks	15	Clear & Clean	1	-	200,000~300,000	51.5	35D	-	-
61967	Aliphatic Urethane Acrylate	·Excellent steel wool abrasion resistance ·High hardness ·Anti-stain	·UV topcoat on plastic ·PMMA Hard coat	15	Haze	-	<5	3,000~4,000	122	88	-	-
6197H	Aliphatic Urethane Hexaacrylate	·Good toughness ·Good abrasion resistance ·Good yellowing resistance	·Coats of UV vacuum metallization ·UV plastic coating	6	Clear & Clean	1	-	50,000~65,000	-	-	-	V
6199	Aliphatic Urethane Acrylate	·Excellent toughness ·Low shrinkage ·Good anti-cracking	·UV spray topcoat on plastic ·UV VM topcoat	9	Clear & Clean	1	<5	100,000~150,000	135.5	94D	-	-
61992	Aliphatic Urethane Acrylate	·Fast curing speed ·Excellent steel wool resistance ·High hardness	·UV Hardcoat	10	Clear & Clean	1	<5	120,000~220,000	116.7	94D	-	-
61998	Fluorine Modified Aliphatic Urethane Acrylate	·Excellent steel wool abrasion resistance ·High hardness ·Anti-stain	·UV Hardcoat	15	Clear & Clean	1	<5	4~6	117	83D	-	-

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties							
				Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status
											REACH / TSCA
5104D	Aliphatic Urethane Acrylate	·Low viscosity ·High hardness ·Good abrasion resistance ·Easy to matting	·UV non-solvnet spray coating ·UV topcoat coating for wood	-	Clear & Clean	1	-	600~900	-	-	- / -
DR-U010	Aliphatic Urethane Acrylate	·Good adhesion to pre-treated PP substrates ·Good adhesion to aluminum substrates ·Good toughness	·UV screen ink ·UV vacuum metallization primer coatings for pre-treated PP substrates	3	Clear & Clean	1	-	8,000~12,000	82.0	7D	- / V
DR-U011	Aliphatic Urethane Hexaacrylate	·Fast curing speed ·Good self-matting ·Good abrasion resistance	·UV matting coatings for plastic ·UV matting coatings for wood	6	Slight haze	-	-	150~300	124.2	6D	- / V
DR-U012	Aliphatic Urethane Hexaacrylate	·Low viscosity ·Fast curing speed ·Good surface effect ·Good self-matting property	·UV matting topcoat for wood ·UV matting topcoat for plastic	6	Clear & Clean	1	-	10~30	-	-	- / V
DR-U021	Aliphatic Urethane Acrylate	·Good leveling ·Good yellowing resistance ·Good anti-cracking	·UV plastic coating ·UV wood coating	2	Clear & Clean	1	-	5,000~8,000	82.2	95A	R / -
DR-U024	Aliphatic Urethane acrylate	.Good yellowresistance .Good Fexilbilty .Good levelling .Gnti-cracking	.UV top-coating of plastic .UV top-coating of wood	6	Clean & Clear	1	-	2,700~3,700	-	-	R / -
DR-U028FS	Aromatic Urethane Acrylate	·Good adhesion of glass and glass ·Good adhesion of glass and metal ·Good boiling water resistance ·Tack free adhesive	·UV bonding adhesive for glass and metal, glass and glass ·UV bonding adhesive for LCD PIN	2	Clear & Clean	3	167	10,000~15,000(60℃)	47.7	35D	- / V
DR-U050M1	Aliphatic Urethane Acrylate	·Good hydrophilic performance ·Excellent anti-fog performance ·Fast curing speed	·UV anti-fog applications (Car-lamp, glasses et al.) ·UV Hydrophilic coating	2.5	Clear & Clean	2	5.1	2,000~2,600	10.0	-	- / -
DR-U052	Aliphatic Urethane Acrylate	·Good anti-cracking ·Good hand sweat resistance ·Good yellowing resistance	·UV plastic coating ·UV VM topcoat	4	Clear & Clean	1	-	10,000~20,000	-	-	- / -
DR-U076	Aliphatic Urethane Acrylate	·Good water resistance ·Good toughness ·Good yellowing resistance ·Good abrasion resistance	·UV plastic coating ·UV topcoat of vacuum metallization	6	Clear & Clean	1	-	60,000~80,000	-	-	- / -
DR-U079	Aliphatic Urethane Diacrylate	·Good yellowing resistance ·Good toughness ·Good water resistance	·Coatings ·Inks ·Adhesives	2	Clear & Clean	1	30.4	150,000~200,000	42.8	73A	- / -
DR-U084	Aliphatic Urethane Acrylate	.Dual-curable (UV+cationic curing) .Good bonding adhesion .Excellent toughness	.UV bonding adhesive of low surface energy substrates (LCP) .UV bonding adhesive of plastic to glass, plastic to plastic	2	Clear & clean	1	598	22,000~32,000(60℃)	-	80A	- / -
DR-U092	Modified Solvent Based Urethane Acrylate	·Good wetting ·Good flexibility ·Good rework adhesion ·Good yellowing resistance	·UV plastic coating ·Coats of UV vacuum metallization	-	Clear & Clean	1	-	1,800~3,000	70.4	86A	- / V
DR-U092-TF	Modified Solvent Based Urethane Acrylate	·Good wetting ·Good flexibility ·Good adhesion for rework ·Good yellowing resistance	·Plastics varnishes ·Large area spraying for plastics	-	Clear & Clean	1	-	700~1,500	70.4	86A	- / V

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								
				Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
											REACH	TSCA
DR-U096	Aliphatic Urethane Acrylate	·Good curing speed ·Good toughness ·Goog high-temperature high-humidity resitance ·UV-and thermal-curing behaviors of dual-curable adhesives	·UV varnish for leather and TPU ·UV adhesive for FPC reinforce	2	Clear & Clean	1	126.0	7,000~13,000(60℃)	23.5	51D	-	-
DR-U104	Aliphatic Urethane Acrylate	·UV topcoat application for vacuum metallization ·UV plastic coating ·UV wood coating	·UV topcoat application for vacuum metallization ·UV plastic coating ·UV wood coating	9	Clean & Clear	1	-	9,000~14,000 (60℃)	-	-	-	-
DR-U128	Aliphatic Urethane Acrylate	.Good adhesion for metal/metal and glass/glass .Good water resistance .Good thermal shock resistance	·UV curing adhesive for metal/metal and glass/glass	2	Clear & clean	1	180	15,000~20,000 (60℃)	-	55D	R	-
DR-U160	Aliphatic Urethane Hexaacrylate	·Good adhesion ·Good hardness ·Good scratch resistance	·UV wood coating ·UV PVC coating	3~6	Clear & Clean	1	-	-	-	-	-	V
DR-U161	Aliphatic Urethane Hexaacrylate	·Low viscosity ·Good curing speed ·Good flexibility ·Good adhesion	·UV inkjet inks ·UV plastic coatings ·UV overprint vanish ·UV inks ·UV wood coatings	2	Clear & Clean	0.5	-	1,500~2,200	-6	-	-	-
DR-U168	Aliphatic Urethane Hexaacrylate	·Good adhesion on plastic substrates ·Fast curing speed ·Excellent flexibility ·Good boiling water resistance	·UV VM primer ·UV adhesives	2	Clear & Clean	1	108.7	45,000~65,000(60℃)	-47.6	-	-	-
DR-U187	Silicone Modified Polyurethane Acrylate	·Excellent anti-graffiti ·Water and oil repellency ·Excellent abrasion resistance ·Good resistance to cracking	·For UV curing system of wear-resistant and stain-resistant requirement, especially for plastic coating, PET thin films. ·Fo hardcoating to improve the smooth and hardness of the surface.	6~8	Slight haze	1	<5	1,000~3,000	-	77	-	-
DR-U187B	Silicone Modified Polyurethane Acrylate,Diluted in 40% HDDA	·Excellent anti-graffiti ·Water and oil repellency ·Excellent abrasion resistance	·For UV curing system of wear-resistant and stain-resistant requirement, especially for plastic coating, PET thin films. ·Fo hardcoating to improve the smooth and hardness of the surface.	6~8	Slight haze	1	<5	1,000~3,000	67	77	R	-
DR-U230	Aliphatic Urethane acrylate	.Low shrinkage .Good hot stamping .Anti-scratch .Good adhesion on PE substrate	.UV top-coating of PE tube	2	cloudy liquid	-	-	3,400~4,500	-	-	-	-
DR-U240	Aliphatic Urethane Acrylate	·Fast curing speed ·Good flexibility ·High chemical resistance ·Good tooled in gold	·UV wood and plastic coatings ·UV PE tube coatings ·UV nail polish	2	Clear & Clean	2	5.0	1,800~2,200(60℃)	62.9	-	-	V
DR-U241	Aliphatic Urethane Acrylate	.High transmittance, low haze .Good yellowing resistance .Good HTHH resistance(85℃/85%Rh/1000hr) .Good toughness .Supporting layer of multi-layer UVOCA	.UV optical clear adhesive of mobile phone, touch panel, automotive panel	2	Clear & clean	1	240	5,000~8,000(60℃)	-19.0	39D	-	-
DR-U249	Aliphatic Urethane Acrylate	·Good adhesion of low surface energy substrates ·Goog high-temperature high-humidity (HTHH) resitance ·Good bonding retention after HTHH aging	·UV bonding adhesive of PI (Polyimide) and PA(Polyamide) substrate ·UV reinforce adhesive for FPC to glass	2	Clear & Clean	1	431.0	20,000~30,000(60℃)	-17.7	41A	-	-

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties							
				Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status
											REACH / TSCA
DR-U250	Aliphatic Urethane Acrylate	·Good flexibility ·Good soft-touch feeling ·Good yellowing resistance ·Low viscosity	·UV Soft-touched Coatings	2	Haze	-	8.9	100~400cps	-3.9	62A	- / V
DR-U252	Aliphatic Urethane Acrylate	.Disperse medium for quantum dots (QD) .High transmittance, low haze .Good yellowing resistance .Good HTHH resistance(85℃/85%Rh/500hr)	·UV adhesive of QD film ·UV optical clear adhesive of mobile phone, touch panel, automotive panel	0	Clear & clean	1	53	8,000~16,000(60℃)	-38.7	-	- / -
DR-U265	Aliphatic Urethane acrylateDiluted in 25% TPGDA	· Excellent flexibility · Good abrasion resistance · Excellent yellowing resistance	·UV wood coating ·UV plastic coating	3	Clean & Clear	2	-	27,500~42,500	-	-	- / -
DR-U268	Aliphatic Urethane acrylate Diluted in 17% TPGDA	· High hardness · Fast curing speed · Good abrasion resistance	·UV Plastic coatings ·UV Nail polish ·UV Wood coatings	3	Clean & Clear liquid	2	4.1	11,500~14,500(60℃)	96.5	-	- / -
DR-U277	Aliphatic Urethane Acrylate	.Dual-curable (UV+moisture curing) .Good bonding adhesion .NCO content 1~1.5% .Tack-free time 72hr	·UV bonding adhesive of plastic to glass, plastic to plastic ·UV adhesive for eletronic components	2	Clear & clean	1	230	1,800~3,500(60℃)	-	30A	- / -
DR-U281	Aliphatic Urethane Acrylate	.Good flexibility .Good adhesion .High elongation .Good hardness	·UV curing adhesive for FPC, FPC/glass and plastic/glass	2	Clear & clean	1	340	18,000~25,000 (60℃)	60 (DSC)	35D	- / -
DR-U282	Aliphatic Urethane Acrylate	·Tack free adhesive ·Good toughness ·Good adhesion of FPC and glass ·Good adhesion of plated metal(Nickel, Tin)	·UV adhesive for FPC reinforce ·UV bonding adhesive for battery case	2	Yellowish	1	228.0	6,600~7,300(60℃)	83.7	50D	- / -
DR-U294	Aliphatic Urethane Acrylate	.High elongation .Good adhesion .Good high temperature and humidity resistance	.UV curing adhesive for plastic/plastic, plastic/glass and plastic/metal	2	Clear & clean	1	685	25,000~30,000 (60℃)	-10	65A	- / -
DR-U299	Aliphatic Urethane Acrylate	·Extra high breaking elongation ·Good yellowing resistance ·Good bonding adhesion ·Good bonding retention after HTHH aging	·UV bonding adhesive of optical films (TAC, PVA, COP, PMMA) ·UV bonding adhesive of low surface energy substrates (PP, PS, PE) ·UV bonding adhesive of glass to glass, glass to metal	2	Clear & Clean	1	475	25,000~35,000(60℃)	-20.3	37A	- / -
DR-U301	Aliphatic Urethane Acrylate	·Good water resistance ·Good yellowing resistance ·Good toughness	·UV bonding adhesive for glass, plastic ·Gel nail	2	Clear & Clean	1	140.0	25,000~35,000(60℃)	3.5	-	- / -
DR-U311	Aliphatic Urethane Acrylate	·Good adhesion of glass and glass ·Good boiling water resistance ·Good thermal shock	·UV bonding adhesive for glass and glass	2	Clear & Clean	1	196.0	12,000~22,000(60℃)	13.7	-	- / V
DR-U312	Aliphatic Urethane Acrylate	·Excellent flexibility ·Excellent yellowing resistance ·Good curing speed	·UV PVC coatings	2	Slight haze	-	30.2	900~1,600(60℃)	-	-	- / -
DR-U315	Aliphatic Urethane Acrylate	·Excellent acid resistance, alkali chemical resistance ·Good heat resistance (180 ℃ /3hr) ·Excellent resistant to laser engraving, sandblasting and anodic process	·UV-strip mask for ITO-glass, cover lens ·UV-strip mask for metal back-cover of notebook and mobile phone	2	Slight haze	-	585	13,000~20,000(60℃)	-4.3	30A	- / -
DR-U317	Aliphatic Urethane Acrylate	·Excellent flexibility ·Good yellowing resistance ·Good hydrophilic performance	·UV nail polish ·UV lamp and glassess in anti-fog field	2	Clear & Clean	-	11.2	1,500~2,400(60℃)	26.4	-	R / -

URETHANE ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties: Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status: REACH	Regulatory Status: TSCA
DR-U319	Aliphatic Urethane Acrylate	·Good hydrophilic performance ·Excellent flexibility ·Excellent anti-fog performance	·UV anti-fog applications (Car-lamp, glasses et al.) ·UV hydrophilic coating	2	Solid	-	36.2	1,800~2,800(60℃)	20.9	-	R	-
DR-U327	Aliphatic Urethane Acrylate	·Low odor ·Good adhesion ·Good toughness ·Non-residual glue after peeling off	·UV curable adhesive ·Phototherapy nail polish	2	clean/clear	1	210	9,000~12,000	-23.2	38A	-	-
DR-U330	Aliphatic Urethane Acrylate	·Good flexibility ·Excellent elongation ·Excellent adhesione	·UV adhesive	2	Clear&Clean or Slight haze	1	79.5	14,000-22,000	100.0	42	-	V
DR-U331	Aliphatic Urethane Acrylate	.High transmittance, low haze .Good yellowing resistance .Good HTHH resistance(85℃/85%Rh/1000hr)	.UV optical clear adhesive of mobile phone, touch panel, automotive panel	2	Clear & clean	1	153	10,000~20,000(60℃)	-	-	-	-
DR-U356	Aliphatic Urethane Acrylate	·Fast curing speed ·Excellent toughness ·High gloss	·UV plastic coatings ·UV PVC floor coatings ·PVC thermoforming coatings ·Phototherapy nail polish	2	Clear & Clean	1	39.6	4,500~7,500(60℃)	32.3	55D	-	V
DR-U360D	Aliphatic Urethane Acrylate	·Fast curing ·Good matting powder dispersion ·Easy-to-matte ·High hardness and good scratch resistance	·UV wood topcoat ·UV plastic topcoat ·UV film coating	9	Clear & Clean	1	-	2,000~2,600(60℃)	-	-	R	-
DR-U361-1	Aliphatic Urethane Acrylate	·High transmittance, low haze ·Good ink step filling ·Good yellowing resistance ·Goog HTHH resitance (85℃ /85% Rh/1000hr)	·UV optical clear adhesive of mobile phone/industrial computer touch panel, automotive panel	2	Clear & Clean	1	187	20,000~30,000(60℃)	-45.3	23C2	-	-
DR-U367-1	Aliphatic Urethane Acrylate	·High transmittance, low haze ·Low shrinkage ·Good yellowing resistance ·Goog HTHH resitance (60℃ /90% Rh/ 500hr)	·UV optical clear adhesive (OCA,OCR) ·UV pressure sensitive adhesives	2	Clear & Clean	50(APHA)	135.0	6,000~10,000(60℃)	-44.5	26A	-	-
DR-U371	Aliphatic Urethane Acrylate	.Good adhesion of low surface energy substrates .Good bonding adhesion after HTHH aging	.UV bonding adhesive of low surface energy substrates (LCP) .UV bonding adhesive of plastic to glass, plastic to plastic	2	Clear & clean	1	290	4,000~8,000(60℃)	-	30A	-	-
DR-U372	Aliphatic Urethane Acrylate	·Good water resistance ·Good heat resistance ·Good yellowing resistance ·Excellent elongation	·Adhesives ·Screen inks ·Metal coatings	2	Clear & Clean	1	403.9	70,000~100,000(60℃)	-44.6	-	-	-
DR-U379	Aliphatic Urethane Acrylate	·Good adhesion of low surface energy substrates ·Goog high-temperature high-humidity (HTHH) resitance ·Good bonding retention after HTHH aging	·UV bonding adhesive of non-treated PET, PETG ·UV bonding adhesive of PET to glass	2	Clear & Clean	1	153.0	4,000~9,000(60℃)	-37.3	18A	-	-
DR-U384	Aliphatic Urethane Acrylate	·Extra high breaking elongation ·Good yellowing resistance ·Good bonding adhesion of hetero- substrates ·Good bonding retention after HTHH aging	·UV bonding adhesive of optical films (TAC, PVA, PC) ·UV bonding adhesive of plastic to glass, glass to metal, plastic to plastic ·UV inks	2	Clear & Clean	100(APHA)	535	18,000~25,000(60℃)	-23	60A	-	V
DR-U386	Aliphatic Urethane Acrylate	.Extra high breaking elongation .Good bonding adhesion of hetero-substrate .Excellent toughness	.UV bonding adhesive for plastic, glass, metal	0	Light red liquid	1	506	28,000~38,000(60℃)	-	45D	-	-
DR-U388	Aliphatic Urethane Acrylate	·Good bonding adhesion of polarizing films ·Good bonding adhesion of plastic substrates ·Good boiling water resistance	·UV bonding adhesive of optical films (TAC-PC, TAC-TAC) ·UV bonding adhesive of plastic substrates	2	Clear & Clean	1	373	3,000~5,000(60℃)	-25	35A	-	-

EPOXY ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status
												REACH / TSCA
620-100	2-Hydroxy-3-Phenoxypropyl Acrylate	·Improved flexibility ·Good adhesion	·Coatings ·UV inks ·UV adhesives	1	Clear & Clean	1	1	21.7	170~230	14.0	71A	- / V
6202	Modified Epoxy Acrylate	·Good flexibility ·Good pigment wetting ·Good water balance	·UV offset ink	1.5	Clear & Clean	1	1	-	35,000~60,000	-	-	- / V
621-100	Epoxy Acrylate	·Light color ·Very high gloss ·Good UV/EB cure reactivity ·Good hardness and chemical resistance	·Overprint varnishes for paper and rigid plastics ·Wood varnishes ·Inks and metal decorating vehicles	2	Clear & Clean	1	1	2.8	4,000~7,000(60℃)	90.1	88D	R / V
621A-80	Epoxy Acrylate Diluted in 20% TPGDA	·Light color ·Very high gloss ·Good UV/EB cure reactivity ·Good hardness and chemical resistance	·Overprint varnishes for paper and rigid plastics ·Wood varnishes ·Inks and metal decorating vehicles	2	Clear & Clean	1	1	2.0	28,500~40,000	90.4	84D	R / V
621C-60	Epoxy Acrylate Diluted in 40% TMPTA	·Light color ·Good UV/EB cure reactivity ·High gloss ·Good chemical resistance	·Overprint varnish for paper and rigid plastics ·Wood varnishes ·Inks and metal decorating vehicles	2	Clear & Clean	1	1	-	10,000~13,000	-	-	R / V
621F-80	Epoxy Acrylate Diluted in 20% DPGDA	·Light color ·Good UV/EB cure reactivity ·High gloss ·Good chemical resistance	·Overprint varnish for paper and rigid plastics ·Wood varnishes ·Inks and metal decorating vehicles	2	Clear & Clean	1	1	-	15,000~35,000	-	-	R / V
621G-80	Epoxy Acrylate Diluted in 20% G3.5POTA	·Light color ·Good UV/EB cure reactivity ·High gloss ·Good chemical resistance	·Overprint varnish for paper and rigid plastics ·Wood varnishes ·Inks and metal decorating vehicles	2	Clear & Clean	1	1	-	85,000~110,000	-	-	R / V
6210G	Modified Epoxy Acrylate	·Low viscosity ·Good UV/EB cure reactivity ·High gloss ·Good surface hardness ·Good solvent resistance	·UV overprinting varnishes ·Wood varnishes ·Coatings for paper and plastics ·Lithographic and screen ink vehicles ·Metal decorating vehicles	2	Clear & Clean	1	1	4.8	30,000~35,000	80.2	86D	- / V
6215-100	Modified Epoxy Acrylate	·Light color ·Good UV/EB cure reactivity ·Low film shrinkage ·Good flexibility and toughness	·UV overprinting varnishes ·UV coating for paper & plastics ·UV wood varnishes ·UV ink	2	Yellowish, Viscous liquid	2	5	22.3	5,000~6,200(60℃)	29.0	90A	- / V
62158	Modified Epoxy Acrylate	·UV-LED Accelerator ·Reduce thiol added ·Fast curing speed ·High gloss	·Phototherapy nail polish ·LED curing coating	2	Yellowish	2	2	6.3	10,000~30,000	40.55	73D	- / -
6219-100	Epoxy Methacrylate	·Light color ·Good UV/EB cure reactivity ·Very high gloss ·Good toughness and abrasion resistance	·UV overprinting varnishes ·Coating for paper & plastics ·Wood varnishes ·Lithographic & screen ink vehicles ·Metal decorating vehicles	2	Clear & Clean	1	1.5	0.9	3,000~6,000(60℃)	82.9	90D	- / V
622-100	Fatty Acid Modified Epoxy Acrylate	·Good wetting, flow and leveling effect ·Improved flexibility	·Coating for paper and wood ·Ink ·Metal decorating vehicles	1.9	Clear & Clean	1	1	3.9	3,000~5,500(60℃)	53.0	84D	- / V
622A-80	Fatty Acid Modified Epoxy Acrylate,Diluted in 20% TPGDA	·Low odor ·Good wetting, flow and leveling effect ·Improved flexibility	·Coating for paper and wood ·Ink ·Metal decorating vehicles	1.9	Clear & Clean	1	1	9.0	18,000~25,000	48.0	86D	- / V
623-100	Modified Bisphenol A Epoxy Acrylate	·Provide improved flexibility and toughness without sacrificing cure speed ·Good abrasion and chemical resistance	·Overprint varnishes, clear coatings for paper, wood and metal ·Lithographic inks	2	Clear & Clean	2	3	12.7	4,000~5,500(60℃)	33.5	88D	R / V
623A-80	Modified Bisphenol A Epoxy Acrylate,Diluted in 20% TPGDA	·Provide improved flexibility and toughness without sacrificing cure speed ·Good abrasion and chemical resistance	·Overprint varnishes, clear coatings for paper, wood and metal ·Lithographic inks	2	Clear & Clean	2	3	6.2	25,000~33,000	51.7	85D	R / V

EPOXY ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status
												REACH / TSCA
6235	Modified Epoxy Acrylate	·Good flexibility ·Toughness ·Excellent adhesion on wood ·Good chemical resistance	·Wood sealer and topcoat ·Plastic coatings	2	Clear & Clean	2	3	-	900~1,400(60℃)	-	-	- / V
6240	Epoxy Acrylate	·Fast curing speed ·Excellent sanding	·UV wood primer	2	Clear & Clean	1	1.5	5.0	30,000~55,000	52.9	-	- / V
625C-45	Novolac Epoxy Acrylate, Diluted in 55% TMPTA	·Extremely high surface hardness ·Good thermal resistance properties ·Excellent chemical resistance	·Electronics : solder masks ·Screen inks	3~4	Clear & Clean	1	3	2.3	5,000~9,000	87.8	84D	- / V
6250	Epoxy Acrylate Diluted in 15% TMPTA	·Higher pencil hardness ·Good MEK resistance ·Excellent sanding	·UV wood primer ·UV paper OPV	2	Clear & Clean	1	1	5.0	10,000~30,000	52.3	85D	- / V
6255	Modified Epoxy Acrylate	·High curing speed ·Good sanding ability ·Good hardness and chemical resistance	·UV wood sanding bottom coatings	2	Clear & Clean	1	1	5.0	20,000~40,000	-	-	- / -
6260	Modified Epoxy Acrylate	·Low viscosity ·High curing speed	·UV.coating for wood	1	Clear & Clean	1	1.8	-	60~90	22.8	-	- / -
6261	Epoxidised Soya Bean Oil Acrylate	·Fast curing speed ·Good flexibility ·Good pigment wetting	·UV overprinting varnishes ·Coatings for paper & plastics ·Wood varnishes ·Lithographic & screen ink vehicles ·Metal decorating vehicles	3	Clear & Clean	10	12	10.1	25,000~38,000	14.3	62D	R / V
6261LA	Epoxidised soy bean oil acrylate	·Good adhesion ·Good pigment wetting ·Good flexibility	·UV. Wood finishes ·UV. Ink ·UV Plastics coating	3	Clear & Clean	6	6	5.7	20,000~35,000	—	60D	R / V
6261M	Epoxidised Soya Bean Oil Acrylate	·Good flexibility ·Good adhesion ·Good pigment wetting	·UV overprinting varnishes ·UV ink ·UV wood varnishes ·UV plastics coating	3	Clear & Clean	6	12	-	28,000~47,000	-	-	R / V
6270	Modified Epoxy Acrylate	·UV and cationic dual cure performance ·Good UV cure reactive ·Good high temperature and humidity resistance	·PI substrates bonding adhesive ·UV reinforcing adhesive for FT-LCD/ OLED displays ·UV reinforcing adhesive for flexible flat cable (FFC)	1	Light green	2	1	3	1,000~1,500	58	82D	- / -
6278	Modified Epoxy Acrylate	·UV and cationic dual cure performance ·Good UV cure reactive ·Good high temperature and humidity resistance	·PI substrates bonding adhesive ·UV reinforcing adhesive for FT-LCD/ OLED displays ·UV reinforcing adhesive for flexible flat cable (FFC)	2	Light green	2	1	2	20,000~25,000	58	80D	- / -
628A-70	Modified Epoxy Diacrylate Diluted in 30% TPGDA	·High hardness ·Fast curing ·Good chemical resistance	·UV Wood Coatings ·UV Plastic Coating ·UV paper varnish	2	Clean/Clear	1	1	5	50,000~65,000	-	-	- / -

EPOXY ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties									
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
												REACH	TSCA
DR-G901A	Hyperbranched Epoxy Acrylate	·Good gloss ·Good flexibility ·Fast curing speed	·UV explosion-proof and folding resistant OPV ·DVD glue	4	Clean/Clear	1	5	5	20,000~40,000	-	-	-	-
DR-G915	Modified Epoxy Acrylate	·High refractive index ·High Tg ·Good adhesion on PET film	·UV curable coating	2	Clear & Clean	1	-	-	700~1,300(60℃)	-	-	-	V
DR-G961	Modified Epoxy Acrylate	·Good yellowing resistance ·Good toughness ·Great dispersion of TiO2	·Wood flow-coatings ·Plastic coatings	2	Clear & Clean	2	5	5.0	25,000~50,000	-	-	-	-

POLYESTER ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties									
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
												REACH	TSCA
6311-100	Fatty Acid Modified Polyester Hexaacrylate	·Fast curing speed ·Good pigment wetting ·Good lithographic behavior ·Good abrasion resistance ·Good solvent resistance	·Fast curing lithographic inks and clear varnishes ·UV offset and flexo inks	6	High viscous	dark	12	3.0	4,000~8,000	42.3	95A	R	V
6312-100	Fatty Acid Modified Polyester Hexaacrylate	·Fast curing speed ·Good pigment wetting ·Good lithographic behavior ·Good abrasion resistance ·Good solvent resistance	·UV offset inks	6	High viscous	dark	20	3.2	20,000 ~ 50,000	59.8	86A	R	V
6313-100	Fatty Acid Modified Polyester Acrylate	·Low irritancy ·Good pigment wetting ·Outstanding lithographic behavior	·UV offset inks	4	High viscous	dark	20	1.8	100,000~150,000	83.1	91A	-	V
6314C-55	Chlorinated Polyester Resin Diluted in 45% TMPTA	·Good adhesion ·Good flexibility ·Good pigment wetting	·UV lithographic ink ·UV coatings for metal, plastic and paper	1.2	Clear & Clean	1.5	25	-	45,000~65,000	-	-	R	V
6314C-60	Chlorinated Polyester Resin Diluted in 40% TMPTA	·Good adhesion ·Good pigment wetting ·Fast curing speed	·Inks and coatings for metal, plastic and paper	-	High viscous	1.5	25	1.6	100,000~150,000	50.3	85D	R	V
6314C-60L	Chlorinated Polyester Resin Diluted in 40% TMPTA	·Good adhesion ·Good pigment wetting ·Fast curing speed	·Inks and coatings for metal, plastic and paper	-	High viscous	1.5	25	2.2	60,000~90,000	48.6	93A	R	V
6315	Modified Polyester Acrylate	·Lower viscosity ·High gloss ·Good UV/EB cure reactivity ·Good scratch resistant and toughness ·Good solvent resistance	·Overprint varnish for paper & board ·Wood varnishes ·Coating for plastics ·Lithographic and screen ink vehicles	-	Clear & Clean	2	-	7.3	15,000~25,000	44.8	81D	-	V
63158	Polyester Acrylate	·Good adhesion to VM layer ·Good heat resistance ·Good fullness	·UV V.M. primer	2	Clear & Clean	2	<3	6.1	10,000~15,000(60℃)	74.2	89D	-	-

POLYESTER ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties: Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status: REACH	Regulatory Status: TSCA
6316	Modified Polyester Acrylate	·Good hardness ·Good adhesion ·Good yellowing resistance	·Overprint varnish for paper & board ·Coating for plastics	-	Clear & Clean	1	-	31.1	12,000~25,000	24.3	87D	R	V
63161	Fatty Acid Modified Polyester Hexaacrylate	·Low viscosity ·Good pigment wetting	·Overprint varnish for paper ·UV. Inks	6	Brown liquid	Dark	<12	<5	4,000~8,000	-	-	R	V
6319	Modified Polyester Acrylate	·Good UV/EB cure reactivity ·Good scratch resistant and toughness ·Good solvent resistance	·Overprint varnish for paper & board ·Wood varnishes ·Coating for plastics	-	Clear & Clean	2	-	29.4	18,000~24,000	16.6	81D	-	V
6319-1	Modified Polyester Acrylate	·Good UV/EB cure reactivity ·Good scratch resistant and toughness ·Good solvent resistance	·Overprint varnish for paper & board ·Wood varnishes ·Coating for plastics	-	Clear & Clean	2	-	-	8,000~14,000	-	-	-	V
63194	Chlorinated Polyester Resin	·Good adhesion ·Good pigment wetting ·Good curing speed	·UV inks	-	Clear & Clean	3 max.	10 max.	-	1,500~2,500(60℃)	-	-	R	-
63195	Polyester Acrylate	.Good steam resistance .Good impact resistant .Good pigment wetting (YMCK) .Good curing speed	·UV can coating	3	Light yellow liquid	6 max.	-	-	2,000~5,000 (60℃)	-	-	-	-
6320	Polyester Tetraacrylate	·Lower viscosity ·High gloss ·Good UV/EB cure reactivity ·Good scratch resistant and toughness ·Good solvent resistance	·Overprint varnish for paper & board ·Wood varnishes ·Coating for plastics ·Lithographic and screen ink vehicles	4	Clear & Clean	2	20	6.2	300~500	43.4	95A	-	V
6321-100	Polyester Tetraacrylate	·High gloss ·Good UV/EB cure reactivity ·Good scratch resistance ·Good solvent resistance	·Overprint varnish for paper & board ·Wood varnishes ·Coating for plastics ·Lithographic and screen ink vehicles	4	Clear & Clean	1	2	-	40,000~55,000	82.8	93A	R	V
6328	Amine Modified Polyester Acrylate	·Low viscosity ·Low odor ·Fast curing speed	·Overprint varnish for paper & board ·UV. inks ·UV. wood coating	-	Clear & Clean	2	-	-	200~300	-	-	-	-
6333-100	Polyester Acrylate	·Low odor ·Low viscosity ·Good flexibility	·UV varnish for plastic (PMMA, PC and ABS) ·UV flexo inks ·Wood coating ·Ink-jet	2	Clear & Clean	2	1.0	26.1	100~300	23.1	94A	-	V
6340N	Polyester Acrylate	·Good adhesion ·Good toughness ·Good pigment wetting	·Inks and coatings for metal, plastic and paper	3	Clear & Clean	3	10	-	6,500~7,500(60℃)	-	-	-	V
6342	Modified Polyester Acrylate	·Low viscosity ·Good flexibility ·Good adhesion ·Good solvent resistance	·Wood varnishes ·Coating for plastics ·Lithographic and screen ink vehicles	-	Clear & Clean	2	-	7.0	2,000~5,000	12.0	85D	-	V
63421	Polyester Acrylate	·Low viscosity ·Good curing speed ·Good flexibility ·Good adhesion	·UV wood coatings ·UV overprint vanish ·UV inks ·UV fiber coatings ·UV plastic coatings	2	Clear & Clean	80 (APHA)	0.5	18	110~150	-	-	-	-
63425	Polyester Acrylate	·Low viscosity ·Good curing speed ·Good flexibility ·Good adhesion ·Good wettability of the substrate	·UV inkjet inks ·UV wood coatings ·UV overprint vanish ·UV inks ·UV fiber coatings ·UV plastic coatings	3	Clear & Clean	100 (APHA)	8~16	-	180~280	-	-	-	-

POLYESTER ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status
												REACH / TSCA
63427	Polyester Acrylate	·Low viscosity ·Good curing speed ·Good leveling ·Good pigment wettability and dispersion	·UV wood coatings ·UV overprint vanish ·UV inks ·UV plastic coatings	4	Clear & Clean	1	2	-	500~900	-	-	- / -
6345	Polyester Tetraacrylate	·Excellent adhesion ·Excellent leveling and fullness ·Good pigment compatibility	·UV colored monocoat with high gloss	4	Lightly yellow	<2	-	-	2,500-5,500	-	-	- / -
6349	Polyester Acrylate	·Good adhesion ·Fast curing speed ·Good ink performance	·UV offset inks ·VM base coat for PCTA, PETG	3	Clear & Clean	6	-	-	2,500~3,800(60℃)	-	-	R / V
6351	Polyester Acrylate	·Low viscosity ·Good leveling ·Good UV/EB cure reactivity	·Wood varnishes ·Coating for plastics ·UV inks	4	Clear & Clean	1	2	-	1,000~2,000	17.5	6D	- / -
6353	Polyester Acrylate	·High viscosity and low tack ·Good pigment wetting ·Good water pick up	·UV offset inks	4	Light yellow liquid	2	5	-	1,500~1,700(60℃)	84.3	5D	R / V
6353-1	Polyester Acrylate	·High viscosity and low tack ·Good pigment wetting ·Good water pick up ·Toluene free	·UV offset inks	3	Light yellow liquid	2	3	-	1,900~2,100(60℃)	73.6	95A	R / V
6355	Polyester Acrylate	·Good flexibility ·Good adhesion ·Good solvent resistance	·Overprint varnish for paper & board ·wood varnishes	2	Light yellow liquid	2	3	-	40,000~5,5000	26.0	93A	- / V
63571	Modified Polyester Acrylate	·Good pigment wetting	·UV. Inks	3	Slight haze	-	<10	<5	5,300~6,500(60℃)	-	-	- / -
63581	Polyester Acrylate	·Good toughness ·Good pigment wetting ·Good curing speed	·UV offset inks	3	Clear & Clean	2 max.	10 max.	-	35,000-45,000	-	-	R / -
63596	Polyester Acrylate	·Good adhesion ·Good curing speed	·UV offset inks	3	Clear & Clean	6 max.	10 max.	-	2,500~3,800(60℃)	-	-	- / -
63597	Polyester Acrylate	.Good yellowing resistance .Good pigment wetting (TiO2) .Good curing speed	·UV offset inks ·UV screen inks	3	Clear & clean	2 max.	13 max.	-	1,300~2,000 (60℃)	-	-	- / -
63597N	Polyester Acrylate	.Good yellowing resistance .Good pigment wetting (TiO2) .Good curing speed	·UV can coating	3	Clear & clean	2 max.	-	-	1,500~3,500 (60℃)	-	-	- / -

POLYESTER ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties								Regulatory Status	
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	REACH	TSCA
6360	Polyester Acrylate	·Good self-matting ·Good adhesion ·Good flexibility	·UV matting coatings for paper ·UV matting coatings for wood	2	Slight haze	-	-	-	4,000~6,500	4.1	85A	-	V
63608	Polyester Acrylate	·Excellent curing speed ·Good matting efficiency ·Excellent scratch resistance ·Excellent stability	·UV plastic matting topcoat ·UV wood matting topcoat ·UV OPV matting topcoat	4	Slight haze	-	-	-	500~1,000	-	-	-	
6361-100	Hyperbranched Polyester Acrylate	·Low viscosity ·Low shrinkage ·Good toughness	·Plastic coating, such as PCTA, ABS and PC ·Metal coating ·Flexographic and inkjet inks	8	Clear & Clean	2	10	-	150~250	51.6	39A	-	V
6363	Hyperbranched Polyester Acrylate	·Good toughness ·Good leveling ·Good impact resistance ·Good abrasion resistance ·Good adhesion to metal and aluminum	·Coats of UV vacuum metallization ·UV metal coating	15~18	Clear & Clean	2	15	-	3,000~6,000	-	-	-	-
6371	Polyester Acrylate	·High refractive index ·Fast curing speed ·Recoverability	·High refractive index BEFcoating	2	Clear & Clean	80(APHA)	0.5	103.8	5,000~8,000	23.8	-	-	-
6372	Polyester Acrylate	·High refractive index ·Fast curing speed ·Recoverability	·High refractive index BEFcoating	2	Clear & Clean	80(APHA)	0.5	25.5	2,200~3,200	-8.2	-	-	-
6390F	Fatty Acid Modified Polyester Acrylate	·Good heat resistance ·Good adhesion to BMC/PBT/PA/metal substrates ·Good flexibility and impact strength	·UV VM basecoat for BMC/PBT/PA & metal ·UV topcoat for metal substrates	3~4	Clear & Clean	6	-	-	80~200	-	-	R	V
63928	Polyester Acrylate	·Good curing speed ·Good yelloing resistance ·UV-LED Accelerator	·UV inks ·UV wood caotings	4	Clear & Clean	2	-	-	3,000~4,000	-	-	-	-
DR-E504	Polyester Acrylate	·Good adhesion ·Good hardness ·Excellent water resistance	·UV offset ink ·UV screen ink	3	Light yellowish	2	3~10	-	8,500~10,000 (60℃)	19.0	90A	-	-
DR-E505	Modified polyester Acrylate	·Good adhesion ·Excellent water resistance	·UV screen ink ·UV screen coating	2	Clear&Clean or Slight haze	2	-	-	8,000~16,000	-	-	-	-
DR-E505-1	Modified Polyester Acrylate	·Excellent adhesion ·Good water boiling resistance ·Good flexibility	·Glass UV inks ·Glass UV varnish	2	Slight haze	2	<15	<5	3,000~5,000	80	86	-	-
DR-E522	Hyperbranched Polyester Acrylate	·Good leveling ·Good flexibility ·Good adhesion ·Good yellowing resistance	·Coating for plastics	15~18	Clear & Clean	2	15	-	1,500~3,500	-	-	-	-
DR-E524	Polyester Acrylate	·Good adhesion ·Good impact resistance ·Good anti-misting	·UV offset ink for tin-plate ·UV can coating	2	Clear & Clean	3	5	-	9,000~12,000(60℃)	-	-	-	-
DR-E528	Polyester Acrylate	·High fullness ·Low shrinkage	·UV wood coating ·UV plastic coatings ·UV vacuum metallization coatings	8	Clear & Clean	1	8~18	-	4,500~5,100(60℃)	-	-	-	-
DR-E530	Polyester Acrylate	·Good adhesion with metal ·Good water resistance	·UV basecoat for metal	-	Clear & Clean	2	-	-	20~60	-	-	-	-

POLYESTER ACRYLATE OLIGOMERS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties									
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
												REACH	TSCA
DR-E532	Polyester Acrylate	·Good gloss ·Good leveling ·Excellent adhesion	·UV ink on glass ·Coats of UV vacuum metallization ·UV metal coating	2	Clear & Clean	3	3	-	3,500~4,500 (60℃)	-	-	-	-
DR-E589	Polyester Acrylate	·Good toughness ·Good pigment wetting ·Fast curing speed	·UV offset inks	3	Clear & Clean	3	10	-	-	-	-	-	-
DR-E661	Polyester Acrylate	·Low viscosity ·Good curing speed ·Good flexibility ·Good adhesion	·UV inkjet inks ·UV overprint vanish ·UV inks ·UV fiber coatings ·UV plastic coatings	2	Clear & Clean	80 (APHA)	0.5	18	110~150	-	-	-	-
DR-E615	Polyester Acrylate	·Good adhesion ·Good leveling ·Good boiling water resistance	·UV VM primer on glass	2	Clear & Clean	4	-	-	-	-	-	-	-
DR-E618	Polyester Acrylate	·Fast curing speed ·Good pigment wetting ·Good water balance	·UV offset inks ·UV screen ink	2	Light yellow liquid	4	15	5.0	2,500~4,000(60℃)	68.7		-	V
DR-E630	Polyester Acrylate	·Good heat resistance ·Good adhesion to BMC/PBT/PA/metal substrates ·Good flexibility and impact strength	·UV lithographic ink ·UV coatings for metal, plastic and paper	2	Light yellow liquid	6	-	-	80~200	-	-	-	-
DR-E638NT	Polyester Acrylate	·Fast curing speed ·High hardness ·Good scratch resistance ·Easy-to-matt and low gloss (when combine with matting agent) ·Low viscosity	·UV Plastic matting topcoat ·UV wood matting topcoat ·UV OPV matting topcoat	4	Clear & Clean	1	-	-	30~50	-	-	-	-
DR-E650	Polyester Acrylate	·Good adhesion ·Fast curing speed ·Good chemical resistance	·UV Protective inks on glass ·UV Screen inks on glass	2	Clear & Clean	3	20	-	6,000~7,000 (60℃)	-	-	-	-

REACTIVE AMINE SYNERGISTS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties: Functionality	Appearance	Color (Gardner)	Tensile Elongation%	Viscosity (cps at 25℃)	Tg (℃)	Regulatory Status: REACH	Regulatory Status: TSCA
641	Tertiary Amine Acrylate	·Good diluent efficiency ·Less migration after cured ·Increase UV cure speed	·Adhesion promoter for PVC plastics ·UV clear coating ·Increase gloss retention	1	Light Yellowish Liquid	4	38.0	25~40	-49.6	-	-
6410	Special Tertiary Amine Acrylate	·Less migration after cured ·Increase UV cure speed ·Low odor ·Light color	·Wood coatings ·UV overprint varnishes	2	Clear & Clean	1	36.0	1,000~3,000	-11.1	-	V
6411	Special Tertiary Amine Acrylate	·Fast curing speed ·Low odor ·Light color ·Less surface migration of amine	·Wood coatings ·UV overprint varnishes	2	Clear & Clean	1	39.0	180~200	-16.0	-	V
6412	Special Tertiary Amine Acrylate	·Fast curing speed ·Low odor ·Light color	·UV overprint varnishes ·Coating for paper & plastics ·Lithographic & screen inks ·Wood coatings	4	Clear & Clean	1	-	1,000~3,000	10.0	-	-
6417	Special Tertiary Amine Acrylate	·Fast curing speed ·Low odor ·Less surface migration of amine	·UV overprint varnishes ·Coating for paper & plastics ·Lithographic & screen inks ·Wood coatings	1~2	Clear & Clean	2	-	800~1,200	-43.1	R	V
6420	Reactive Amine Synergist	·Fast curing speed, especially at the surface ·Low level of odor ·Light color ·Less surface migration of amine ·Good stability	·UV overprint varnishes ·Screen and flexo inks ·Wood coatings ·Clear varnishes on paper and plastics ·Pigmented coatings	-	Clear & Clean	2	30.2	15~25	-	-	V
6420-TF	Reactive Amine Synergist	·Fast curing speed, especially at the surface ·Low level of odor ·Light color ·Less surface migration of amine ·Good stability	·UV overprint varnishes ·Screen and flexo inks ·Wood coatings ·Clear varnishes on paper and plastics ·Pigmented coatings	-	Clean & Clean	2	-	15~25	-	-	V
6422-TF	Reactive Amine Synergist	.Good diluent efficiency . Low odor . Less migration after cured . Fast cure speed, especially at the surface . Faster cure speed, especially at the surface	.Wood coatings .Screen and flexo inks .Overprint varnishes .Clear vanishes on paper and plastics . Pigmented coatings	-	Clear & Clean	1	-	70~100	-	-	-
645	Special Tertiary Amine Acrylate	·Low odor ·Less migration after cured ·Fast cure speed	·In place of non-reactive amine synergists ·UV overprint varnishes	1~2	Clear & Clean	4	35.4	100~130	-17.2	-	V
647	Special Tertiary Amine Acrylate	·Fast curing speed ·Low odor ·Light color ·Less surface migration of amine	·In place of non-reactive amine synergists ·UV overprint varnishes	1~2	Clear & Clean	3	35.7	75~95	-32.1	-	V

FULL ACRYLICS

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties: Appearance	Color (Gardner)	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status: REACH	Regulatory Status: TSCA
65188	Hotmelt Acrylic Adhesive	.Low Adhesion .Good Water and Heat Resistance .Excellent Cohesion	.UV removable tape .UV protective film	yellowing liquid	-	10,000~50,000 (130℃)	-55	-	-	-
6526-1	Hotmelt Acrylic Adhesive	·Good Adhesion ·Excellent Cohesion	·UV Tap ·UV Adhesives	Clear & Clean	-	20,000~75,000 (130℃)	-43	-	R	V
65267	Hotmelt Acrylic Adhesive	.High Adhesion .Good Cohesion	.UV Tape .UV adhesive tape for assemble cable harnesses	light yellowing liquid	-	20,000~75,000 (130℃)	-36	-	R	V
6528	Hotmelt Acrylic Adhesive	·Excellent Adhesion ·Excellent Heat Resistance	·UV protective tape ·UV medical adhesives	Yellowing Liquid	-	20,000~70,000 (130℃)	-36	-	-	-
6530B-40	A Full Acrylic Resin Diluted in 60% HDDA	·Fast curing speed ·High hardness ·Good weather resistance ·Good adhesion to difficult substrates	·UV coatings on paper, plastics, metal, wood ·UV inks	Clear & Clean	1	13,000~16,500	73.6	91A	-	V
6533B-40	A Full Acrylic Resin Diluted in 60% HDDA	·Good hardness and toughness ·Good soluble to monomers ·Good weather resistance ·Improve adhension to different substrate	·UV coatings on paper, plastics, metal, wood ·UV inks	Clear & Clean	1	16,000~32,000	86.2	90A	-	V
65352	A Full Acrylic Resin	·High transparency ·Good yellow resistance ·High thermal and humidity stability (60℃/ 90% Rh 500hr) ·High elongation ·Medium adhesion	·UV OCA (OCA, OCR) ·UV pressure sensitive adhesive	Clear & Clean	<2	10,000~20,000	-52	30C2	-	-
65357	A Full Acrylic Resin	·High adhesion ·High holding power ·High elongation	·UV pressure sensitive adhesive	Clear & Clean	<2	10,000~20,000	-	-	-	-
6536-1	A Full Acrylic Resin diluted in 50% HDDA	·Good flexibility ·Good Anti-stick back ·Good adhesion to OPP	.UV. Screen printing ink	Slightly turbid	-	15,000~35,000		-	-	V
DR-A801	A Full Acrylic Resin Diluted in 46% HDDA / TPGDA	·Fast curing speed ·Good flexibility ·Improve adhension to different substrate	·UV coatings on paper, plastics, metal, wood ·UV inks	Clear & Clean	2.5	13,000~20,000	7.1	91A	-	V

FULL ACRYLICS

Typical Physical & Chemical Properties

ETERCURE®	Chemical Description	Characteristics	Applications	Appearance	Color (Gardner)	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
									REACH	TSCA
DR-A815	A Full Acrylic Resin Dilited in 40% DPGDA	·Excellent adhesion to difficult substrates ·High gloss ·Good hardness	·UV plastic coatings ·UV varnish for OPP ·Overprint varnishes	Clear & Clean	2	2,000~4,000(60℃)	89.4	79	-	-
DR-A819	A Full Acrylic Resin	·Good flexibility ·High fullness ·Dual-cure (UV+thermal curing)	·UV topcoat for 3C ·UV topcoat for plastics	Clear & Clean	2	2,000~4,000	67.0	-	-	-
DR-A820	A Full Acrylic Resin	·Good hardness ·Excellent chemical resistance ·Dual-cure (UV+thermal curing)	·Car interior ·Good curing speed with pigment ·UV topcoat for plastics	Clear & Clean	2	5,000~10,000	57.0	-	-	-
DR-A823	A Full Acrylic Resin	·Dual-cure ·Fast curing speed ·Tack free	·UV plastic coating	Clear & Clean	2	15,000~45,000	110	78	-	-
DR-A825	A Full Acrylic Resin	·Tack-free ·Thermal forming ·Dual-cure (UV+thermal curing)	·UV matting topcoat for Plastics ·IMD process	Cloudy Liquid	<2	15,000~35,000	70	-	-	-
DR-A827	A Full Acrylic Resin	·Excellent leveling ·Excellent fullness ·Good adhesion ·Good water resistance ·Dual-cure (UV+thermal curing)	·Automotive interiors ·Refinishing	Clear & Clean	2	800~1,400	-23	44	-	-
DR-A830	A Full Acrylic Resin	·Good adhesion on untreated PP	·Adhesion promoter on untreated PP	Clear & Clean	3 max.	15~35	-	-	-	-
DR-A832	A Full Acrylic Resin	·Adhesion promoter	·UV Plastic coatings ·UV inks ·Overprint varnishes	Clean & Clear	<2	14,000~21,000	-	-	-	-
DR-A845	A Full Acrylic Resin Diluted in 46% HDDA / TPGDA	·Good flexibility ·Good pigment wetting ·Good leveling	·UV tin-plate offset ink ·UV screen ink	Clear & Clean	1.5	7,000~13,000	-	-	-	V
DR-A870	A Full Acrylic Resin Dilited in 50% THFA	·Excellent adhesion ·Good crack resistance ·Good water resistance	·Plastic coating ·UV inks ·Adhesives	Clear & Clean	1	600~1,200	90.5	-	R	-
DR-A893	A Full Acrylic Resin	·Excellent leveling ·Excellent fullness ·Good impact resistance ·Dual-cure (UV+thermal curing)	·UV plastic coating ·Wheel shell finsh	Clear & Clean	2	2,800~3,600	-23	44	-	-

SPECIFIC FUNCTIONAL ACRYLATES

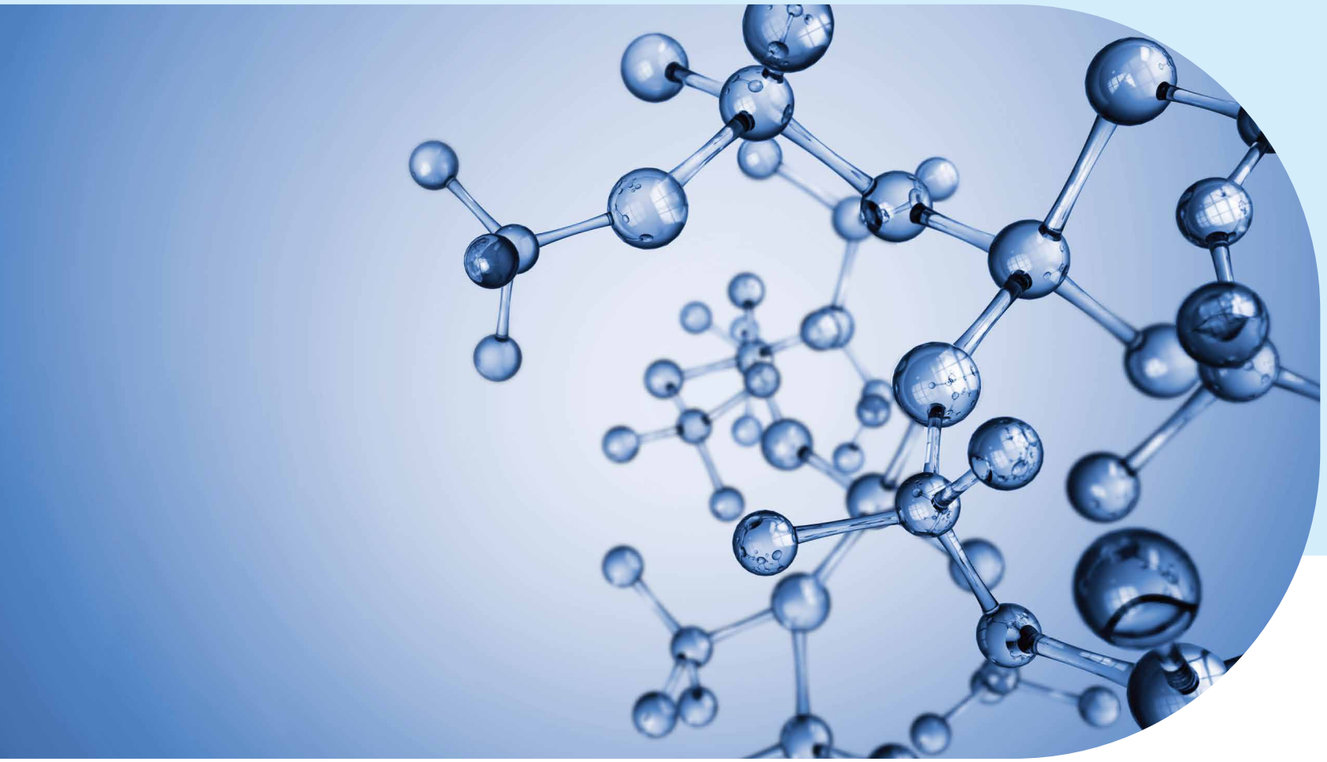
				Typical Physical & Chemical Properties							
ETERCURE®	Chemical Description	Characteristics	Applications	Appearance	Color (Gardner)	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status		
									REACH	TSCA	
601A-35	Organic-Inorganic Hybrid Material Dispersion in TPGDA	·Improved scratch-abrasion and chemical-resistance ·High durability to weathering and environmental exposure ·Higher thermal stability and flame retardancy ·Improved adhesion on various substrates ·Better dimensional stability and low shrinkage ·Antistatic and antiblocking properties ·Anticorrosion effect	·Paints, varnishes and adhesives ·Inks and overprint varnishes ·Polymer substrates ·Optical coatings	Clear & Clean	1	170~230	62.7	14D	-	V
601C-35	Organic-Inorganic hybrid Material Dispersion in TMPTA	·Improved scratch-abrasion and chemical-resistance ·High durability to weathering and environmental exposure ·Higher thermal stability and flame retardancy ·Improved adhesion on various substrates ·Better dimensional stability and low shrinkage ·Antistatic and antiblocking properties ·Anticorrosion effect	·Paints, varnishes and adhesives ·Inks and overprint varnishes ·Polymer substrates ·Optical coatings	Clear & Clean	1	1,000~2,000	51.6	18D	-	V
601Q-35	Organic-Inorganic Hybrid Material Dispersion in DPHA	·Improved scratch-abrasion and chemical-resistance ·High durability to weathering and environmental exposure ·Higher thermal stability and flame retardancy ·Improved adhesion on various substrates ·Better dimensional stability and low shrinkage ·Antistatic and antiblocking properties ·Anticorrosion effect	·Paints, varnishes and adhesives ·Inks and overprint varnishes ·Polymer substrates ·Optical coatings	Clear & Clean	1	12,000~25,000	47.9	29D	-	V
601X-35	Organic-Inorganic Hybrid Material Dispersion in 6195-100	·Improved scratch-abrasion and chemical-resistance ·High durability to weathering and environmental exposure ·Higher thermal stability and flame retardancy ·Improved adhesion on various substrates ·Better dimensional stability and low shrinkage ·Antistatic and antiblocking properties ·Anticorrosion effect	·Paints, varnishes and adhesives ·Inks and overprint varnishes ·Polymer substrates ·Optical coatings	Clear & Clean	1	45,000~65,000	-	-	-	-
605S	Organic-Inorganic Hybrid acrylate	·Fast curing speed ·Excellent steel wool resistance ·High hardness	·UV Hardcoat	Haze	-	3~5	125	-	-	-

SPECIFIC FUNCTIONAL ACRYLATES

ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties							
				Appearance	Color (Gardner)	Acid Value (mg KOH/g)	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
										REACH	TSCA
6063	Modified Solvent Based Acrylate	·Good adhesion to aluminum ·Good flexibility ·Good leveling	·UV spray topcoat on plastics ·UV topcoat on aluminum paste primer	Clear & Clean	1	-	500~650	75.5	85A	-	V
6068W	Modified Solvent based Acrylate	·Excellent levelling ·Good adhesion ·Excellent fullness ·Excellent wetting properties	·UV spray topcoat for plastics ·UV VM topcoat	Clear & Clean	2	-	8,000-12,000			-	-
6071	Modified Solvent Based Acrylate	·Good adhesion to aluminum ·Good hardness and high gloss	·UV topcoat on aluminum panel & aluminum paste primer	Clear & Clean	1	-	1,500~2,300	122.0	90D	-	V
60711	Modified Solvent based Acrylate	·Good dye compatibility ·Excellent adhesion and hardness ·Good levelling ·Excellent scratch resistance	·UV spray topcoat on plastics ·UV VM topcoat	Clear & Clean	1	-	1,200~1,500	-42.4	-	-	-
60713	Modified Solvent based Acrylate	·Tack free ·Excellent scratch resistance ·Excellent alchol resistance	·UV. spray topcoat for plastics ·UV.VM. Topcoat	Clear & Clean	1	-	300~500	68	-	-	-
6071-5	Modified Solvent based Acrylate	·Good flexibility ·Good adhesion ·Good yellowing resistance	·UV. spray topcoat for plastics ·UV.VM. Topcoat	Clear & Clean	1	-	700~1,500	-	-	-	-
6071-C	Modified Solvent Based Acrylate	·Good adhesion ·Good heat resistance ·Good flexibility	·UV plastic coating ·UV VM topcoat or intermediate coat	Clear & Clean	2	-	1,500~2,300	122.0	-	-	-
60717	Modified Solvent based Acrylate	·Good dye compatibility ·Excellent adhesion and hardness ·Excellent anti-graffiti ·Good resistance to cracking	·UV. spray topcoat for plastics ·Plastic Primer	Clear & Clean	1	-	1,500~2,500	-30	-	-	-
60719	Modified Solvent based Acrylate	·Good levelling ·Excellent adhesion ·Good dye compatibility	·UV spray topcoat on plastics ·UV VM topcoat	Clear & Clean	1	-	2,200~2,800	-30	-	-	-
60725	Solvent based Acrylate Oligomer	·Excellent adhesion between VM layer and UV. topcoat ·Good pigment compatibility ·Good flexibility to promote vibration resistance	·UV VM colored middle coat	Clear & Clean	< 1	-	400 ~ 800	-	-	-	-
60727	Solvent based Acrylate Oligomer	·Excellent adhesion between VM layer and UV. topcoat ·Good boiling water resistance ·Good heat resistance	·UV VM colored middle coat	Clear & Clean	< 1	-	1,000~1,500	-	-	-	-
60728	Solvent based Acrylate Oligomer	·Excellent adhesion between VM layer and UV. topcoat ·Excellent Leveling ·Good pigment compatibility	·UV VM colored middle coat ·UV VM colored top coat	Clear & Clean	< 1	-	1,800~3,300	-	-	-	-
6077	Modified Solvent Based Acrylate	·Good adhesion to aluminum ·Good hardness and high gloss	·Top coatings for spray coating with plastic base ·Top coatings with aluminum base, vacuum metalizing thin film	Slight haze	1	-	1,500~2,300	119.0	85A	-	-

SPECIFIC FUNCTIONAL ACRYLATES

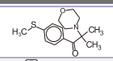
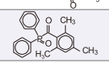
ETERCURE®	Chemical Description	Characteristics	Applications	Typical Physical & Chemical Properties							
				Appearance	Color (Gardner)	Acid Value (mg KOH/g)	Viscosity (cps at 25℃)	Tg (℃)	Shore	Regulatory Status	
										REACH	TSCA
648-1	Acrylated, Carboxyl Acid Terminated	·Acrylate functionality, carboxylic acid	·UV curable etching resists ·UV curable plating resists	Clear & Clean	1	App.210	3,000~10,000	44.7	-	-	V
649	Methacrylated, Carboxyl Acid Terminated	·Methacrylate functionality, carboxylic acid	·UV curable etching resists ·UV curable plating resists	Clear & Clean	1	App.200	3,000~6,000	85.1	-	-	V
7200C	Modified Solvent Based Acrylate	·Excellent metal adhesion ·Good salt mist resistance ·Good toughness ·Fast curing speed	·UV topcoat for metals ·Anti-corrosion coating	Clear & Clean	2	-	5,000~10,000	-	-	-	-
8000A	Multifunctional Aliphatic Urethane Acrylate	·High transparency ·Good toughness ·Good resistance to yellowing ·Good water resistance	·UV scratch resistance coatings on plastic ·UV topcoat for PET flim ·UV hardcoatings for touch-pad	Clear & Clean	1	-	2,400~3,200	75.8	10D	-	V
DR-M451	Melamine Acrylate	·Light color ·Fast curing speed ·Good yellowing resistance ·Good hardness	·UV plastic coating ·UV wood coating	Clear & Clean	1 Max.	-	2,500~3,500	76.8	-	-	-
DR-M458	Melamine Acrylate	·Excellent acid and alkaline resistance ·Excellent hand sweat resistance ·Excellent flame resistance	·UV varnish ·UV VM coating ·PVC flooring	Slight haze	-	1	3,000~4,500(60℃)	87.5	-	-	-
ETERSLIP 90	Silicone Urethane Acrylate	·Good wetting ·Good leveling	·UV plastic coating	Clear & Clean	-	-	13,000~23,000	-	-	-	-
64801	Carboxypolycaprolactone monoacrylate	·Impact resistance ·High flexibility ·Flowable in room temperature ·Antistatic performance ·Excellent improvement for adhesion on metals	·UV curable coating resin ·Adhesives ·Additives of resins or polyesters ·Ink ·Protective film	Pale yellow Liquid	-	170-200	80~180	-	-	-	-



PHOTOINITIATOR

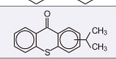
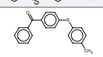
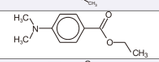
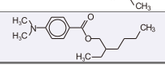
ALPHA CLEAVAGE

Typical Physical & Chemical Properties

Eterphoto	Chemical Description	Appearance	Viscosity (cps at 25°C)	Melting Point(°C)	Molecular Weight
PI 907	2-Methyl-1-[4-(Methylthio)phenyl]-2-Morpholino-Propane-1-one 	White crystalline powder	Solid	72~76	279.4
PI TPO	Diphenyl-(2,4,6-Trimethylbenzoyl)-Phosphine Oxide 	Light yellow crystal	Solid	90~94	348
PI BDK	Benzil Dimethyl Ketal 	White crystalline powder	Solid	63~67	256.3
PI 1173	2-Hydroxy-2-Methyl-1-Phenyl-Propane-1-one 	Colorless or slightly yellow liquid	15~25	-	164.2
PI 184	1-Hydroxy -Cyclohexylphenyl-Ketone 	White crystalline powder	Solid	46~50	204.3
PI 55	Benzonyl Derivative 	Light yellow liquid	5~15	-	-

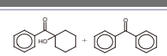
HYDROGEN ABSTRACTION

Typical Physical & Chemical Properties

Eterphoto	Chemical Description	Appearance	Viscosity (cps at 25°C)	Melting Point(°C)	Molecular Weight
PI BP	Benzophenone 	White crystalline powder	Solid	47~49	182.2
PI ITX	Isopropyl Thioxanthone(Mixture of 2-and4-isomers) 	Yellow or off-yellow powder	Solid	74~76	241
PI BMS	4-Benzoyl-4'-methyldiphonylsulphide 	Silver white flake	Solid	75~85	304
PI MBB	Methyl-2-Benzoyl Benzoate 	White crystalline powder	Solid	48~54	240.3
PI EDB	Ethyl-4-(Dimethylamino) benzoate 	White crystaline powder	Solid	62~67	193
PI EHA	2-Ethylhexyl 4-Dimethylaminobenzoate 	Clear slight yellow liquid	-	325(Boiling Point)	277.4

MIXTURE

Typical Physical & Chemical Properties

Eterphoto	Chemical Description	Appearance	Viscosity (cps at 25°C)	Melting Point(°C)	Molecular Weight
PI 500	Mixture of PI 184 and PI BP 	Colorless or slightly yellow liquid	30~50	＜25	193

symbase

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