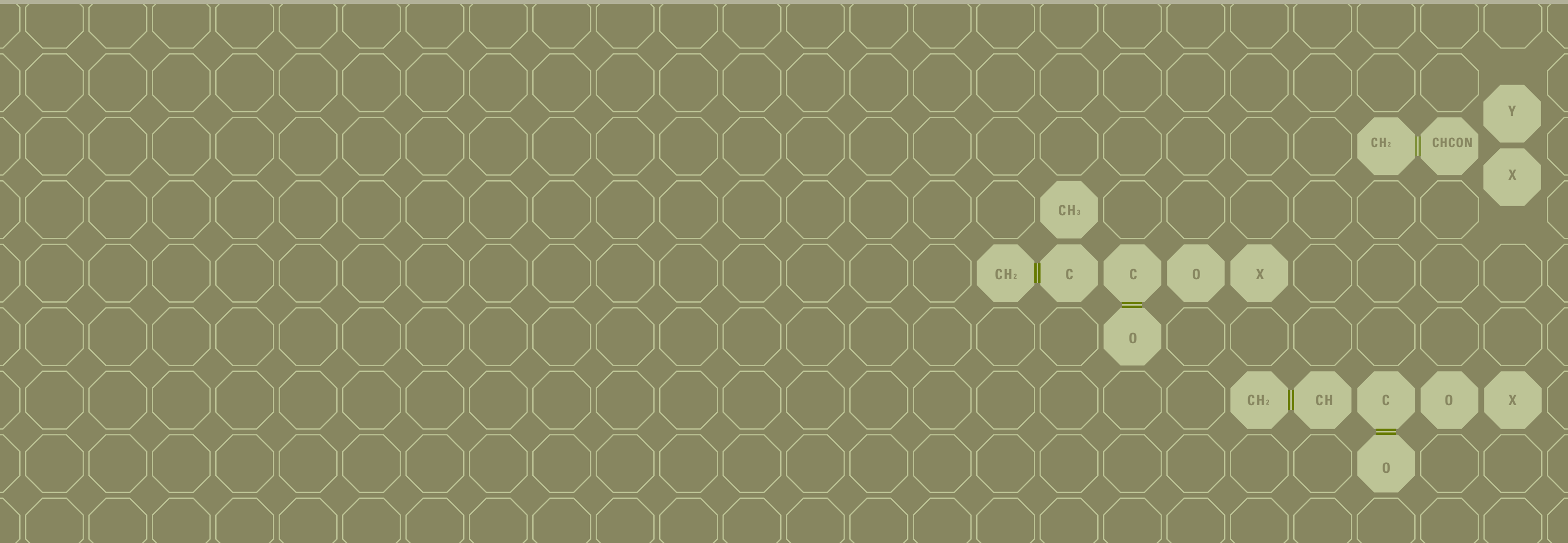




# SPECIALTY MONOMERS

a broad portfolio of specialty monomers  
for application in adhesives, coatings  
and polymers.



**JARCHEM INDUSTRIES, INC.**  
*An ISO 9001:2000 Company*

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**Acrylamides**  
**Methacrylates**  
**Acrylates**  
**Others**

Tradename	Chemical Name	CAS #	Einecs #	Appearance Solid/Liquid	Viscosity (mPas/25°C)	Color (APHA)	Specific Gravity (20°C)	Boiling Point (°C/mmHg)	Flash Point (°C)	Inhibitor (MEHQ, ppm)	Tg (°C)	Advantages
<b>ACRYLAMIDES</b>												
NNDMA	N,N-Dimethyl acrylamide	2680-03-7	2202375	L		100	0.965	172/760	77	500	120	Effective as a stable raw material against hydrolysis in water soluble polymers and a viscosity modifier monomer for hydrophilic and adhesive properties as well as oligomers. Offers excellent adhesion, UV and impact resistance. Strong glass adhesion. Widely applied to paints, adhesives, Conductive coatings, inks, contact lenses, cosmetics, oilfield and water treatment.
DMAPAA	N,N-Dimethylamino propyl acrylamide	3845-76-9	2561766	L				117/2				A monomer stable against hydrolysis in a wide range of PH and showing strong alkalinity. Raw material for cationic polymers.
DMAPAA-Q (75% aq solution)	N,N-Dimethylamino propylacrylamide, methyl chloride Quaternary	45021-77-0	2561813	L								Good storage characteristics. In flocculants can yield polymers with higher molecular weights.
NIPAM	N-Isopropyl acrylamide	2210-25-5	2186385	S(62)			0.90(70)	89/4			134	Polymerized product is thermosensitive water absorbing/desorbing material.
DEAA	N,N-Diethyl acrylamide	2675-94-7		L		100	0.872	55/2		500		A monomer having amphipathic sensitivity. Will modify adhesiveness and hydrophilic properties of non-polar polymers. Poly-DEAA shows temperature sensitivity.
HEAA	N-(2-Hydroxyethyl acrylamide)	7646-67-5		L			1.120	130/0.1				Very low toxicity. High antihydrolysis compared with acrylate analogues. High activity to photo-polymerization.
<b>METHACRYLATES</b>												
BZ	Benzyl methacrylate	2495-37-6	2196744	L	2.7	30	1.039	160/100 115/10	117	200	54	Offers excellent adhesion, flexibility, and high refractive index. Base product for reactive adhesives. Excellent for use in adhesives, deodorants, textile coatings, lenses, dental composites, and inks.
PO	2-Phenoxy ethyl methacrylate	10595-06-9	2342011	L		200	1.086	138/7	120	100	54	Low volatility, multifunctional monomer. High chemical resistance, flexible, low shrinkage and offers hardness. Excellent for electronic encapsulation and concrete polymers.
IB-X	Isobornyl methacrylate	7534-94-3	2314031	L		30	0.982	113/7 74/2	117	50	180	Offers adhesion, hardness, heat / water resistance, low toxicity and low shrinkage. Reactive diluent for oligomers and high Tg. Excellent for use in automotive coatings, metal, glass and plastic coatings, concrete polymers, paint resins, concrete and golf heads.
M-12	Lauryl methacrylate	142-90-5	2055706	L	4.2	50	0.872	205/50 170/10 120/1	143	100	-65	Offers excellent flexibility and low shrinkage. Excellent for use in automotive refinish resins, low temperature caulks, sealants, and adhesives.
M-275	Alkyl(C12/14) methacrylate	142-90-5 2549-53-3	2055706 2198359	L	4.5	50	0.872	165/10	143	30	-60	Tacky adhesives, photosensitive polymers.
M-250	Alkyl(C8-18) methacrylate	various	various	L	4.6	50	0.872		152	50	-59	Tacky adhesives, photosensitive polymers.
M-18	Stearyl methacrylate	32360-05-2	2510135	S(20)	8.5	250	0.864	205/5	191	250	38	

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<b>METHACRYLATES</b>												
M-67	Alkyl(C16/18) methacrylate	2495-27-4 32360-05-7	2196723 2510135	L	8.4	50	0.864		171	100	26	
M-1231	2-Butyloctyl methacrylate	10097-26-4	2332312	L	4.3	50			129			Can be used as co-polymers to reduce the viscosity of final polymers.
M-1631	2-Hexyldecyl methacrylate	90552-14-0	2921359	L	8.2	50			180			Can be used as co-polymers to reduce the viscosity of final polymers.
1.6HX	1,6 Hexanediol dimethacrylate	6606-59-3	2295517	L	4	200	0.997	128/3	152	100		Adhesive and coating modifier. Crosslinking agent. Excellent for Ion exchange resin and rubber modification.
1.9ND	1,9 Nonanediol dimethacrylate	65833-30-9		L		200	0.969		191	100 (HQ)		
1.10ND	1,10 Decanediol dimethacrylate	6701-13-9	2297451	L		250	0.962	124/0.07	204	100		
G-101P	Glycerine dimethacrylate	1830-78-0	2173884	L		200			161	200		
EG	Ethylene glycol dimethacrylate	97-90-5	2026172	L	3.2	30	1.048	97/4	118	100		Difunctional monomer used in free radical polymerizations. Good weatherability. Excellent for use in plastic coatings.
2EG	Diethyleneglycol dimethacrylate	2358-84-1	2190999	L		300	1.064	128/3	145	100	66	Offers good crosslink density. Excellent for use as reactive diluent or co-monomer in photopolymers, dental materials, adhesives and caulks.
3EG	Triethyleneglycol dimethacrylate	109-16-0	2036526	L	10.2	150	1.071	162/2	159	200		Offers good crosslink density. Excellent for use as reactive diluent or comonomer in acrylics, dental polymers, photoresists, photopolymers, wood products, and sealants.
4EG	PEG#200 dimethacrylate	25852-47-5		L		150	1.079	162/16 155/1	155	100		Monomer offering hydrophilicity, good crosslink density and impact strength. Excellent for use in anaerobic adhesives, polymer concretes, paper resins and textiles coatings.
DM	Dimethylaminoethyl methacrylate	2867-47-2	2206888	L	1.4	30	0.936	186/760	65	2000	18	Application in adhesives and coatings, lube oil additives, ion exchange resins, textile and water treatment and polymer modification.
DE	Diethylaminoethyl methacrylate	105-16-8	2032757	L	1.8	30	0.921	114/30	94	1000	20	Application in adhesives and coatings, lube oil additives, ion exchange resins, textile and water treatment and polymer modification.
DQ-100	Dimethylaminoethyl methacrylate Quaternary	5039-78-1	2257335	S						1000		Anti-static properties .
G-201P	2-Hydroxy-3-acryloyloxy propyl methacrylate	1709-71-3		L	40~80	200			147			Good adhesion. Excellent viscosity reducer. Good curing speed.
HOB	2-Hydroxybutyl methacrylate	13159-51-8		L		30	1.011		108	200		
M-3F	Trifluoro ethyl methacrylate	352-87-4	2065253	L		30	1.18	80/150	24.5	100		
FM-108	Perfluoro octylethyl methacrylate	1996-88=9	2178772	L	400~800	200	1.659	120/4	146	100	40	
BP-2EM	Dimethacrylate of ethylene oxide modified w/ bisphenol A	41637-38-1		L		100	1.120		220	50	87	Offers fast curing, low volatility, adhesion, flexibility, low shrinkage, abrasion and heat resistance. High refractive index, impact strength and water/chemical resistances. Excellent for use in photopolymers, elastomers, inks, coatings, and contact lenses.
40EM	Dimethacrylate of 40E					300						

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<b>ACRYLATES</b>												
PO-A	2-Phenoxy ethyl acrylate	48145-04-6	2563606	L	10~15	100	1.06	134/1	139	300	-22	Offers excellent abrasion resistance, water resistance, and weatherability. Good curing speed. Excellent for use in UV/EB coatings on optical fibers, and flexo, gravure and screen inks. Low toxicity.
L-A	Lauryl acrylate	2156-97-0	2184634	L	4~5	250	0.875	120/1	142	100	-3	Low toxicity Improved water resistance and low volume shrinkage in polymerization. Monomer offering abrasion and chemical resistance, low shrinkage, low toxicity, and good weatherability. Excellent for use in UV-cured inks and coating, pressure sensitive adhesives.
S-A	Stearyl acrylate	4813-57-4	2253833	S(25)	8~10	100	0.864	160/4	181	200	35	Low toxicity Improved water resistance Low volume shrinkage in polymerization. Monomer offering flexibility, hardness and water resistance. Excellent for use in release paper coatings, pour-point depressants, and slip additives.
1233-A	2-Butyloctyl acrylate	93841-23-7	2989946	L	4.3	50			136			Can be used as co-polymers to reduce the viscosity of final polymers.
1633-A	2-Hexyldecyl acrylate	90530-28-2	2920685	L	8.1	50			169			Can be used as co-polymers to reduce the viscosity of final polymers.
1.6HX-A	1,6 Hexanediol diacrylate	13048-33-4	2359219	L	5~6	200	1.02		151	100	63	Excellent viscosity reducer. Good curing speed.
1.9ND-A	1,9 Nonanediol diacrylate	107481-28-7		L	10	200			188		68	Excellent viscosity reducer. Improved water resistance.
3EG-A	Triethyleneglycol diacrylate	1680-21-3	2168539	L	9~11	250	1.109		175	2000		Excellent viscosity reducer. Good curing speed.
4EG-A	PEG#200 diacrylate	26570-48-9		L	10~12	250	1.122		146	1000	50	Good flexibility. Good curing speed. Produces soft flexibe free radical cured flexible films. Low skin irritation.
9EG-A	PEG#400 diacrylate	26570-48-9		L	22~25	200	1.117		210	500	3	Aqueous solution. Low volume shrinkage in polymerization. Low toxicity.
14EG-A	PEG#600 diacrylate	26570-48-9		L	50~70	200	1.117		220	250	-42	Aqueous solution. Low volume shrinkage in polymerization. Low toxicity.
DMAEA	N,N-Dimethylamino ethyl acrylate	2439-35-2	2194600	L	1~2	100	0.943	75/22	63			Offers good adhesion and low shrinkage. Excellent for use in water treatment, metals, pigment dispersion, plastic and wood. Can be used as a copolymer as well as a surface-active demulsifier. Excellent for use in water - treatment coatings, automobile-lube oils and hair styling gels. Is a chemical intermediate offering good adhesion. Recommended for use in coatings, textiles, automotive coatings, paper, and oil field chemicals. Widely used in cationic polymers.
DMAEA-Q (79% aq.-solution)	N,N-Dimethylamino ethyl acrylate, methyl chloride Quaternary	44992-01-0	2561766	L						2000		A water soluble polymer component for use in water treatment, polyester, textiles, mineral recovery, adhesives and papermaking. A highly water-soluble acrylate monomer which offers high cationic charge and excellent flocculation and coagulation properties.
DCP-A	Dimethylol tricyclo decane diacrylate	42594-17-2	2559013		130~170	200			150			Low volume shrinkage in polymerization Good curing speed. Anti-hydrolysis due to ring structure in center which sterically hinder.

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<b>ACRYLATES</b>												
TMP-A	Trimethylolpropane triacrylate	15625-89-5	2397013	L	80~120	300			177			Good curing speed. High crosslinking density. Monomer offering abrasion resistance, gloss, hardness, heat resistance, low volatility and water resistance. Excellent for use in adhesives, coatings, inks, imaging films, and wood floors
EHDG-A	2-Ethyl hexyl diglycol acrylate	117648-83-0		L	4~10	100			151			Low toxicity. Good flexibility. Excellent viscosity. Good washing surfactant in flexographic printing inks.
HOB-A	2-Hydroxy butyl acrylate	2421-27-4		L	8~10	100			105			Excellent viscosity reducer. Good adhesion. Good curing speed. Hydroxyl group on 2nd carbon gives better water resistance. Strong in paints.
EC-A	Ethoxy diethyleneglycol acrylate	7328-17-8	2308117	L	4~5	200			113		-70	Good adhesion. Excellent viscosity reducer.
130A	Methoxy polyethylene glycol acrylate	32171-39-4		L	25	100			220			Low toxicity, Hydrophilic. Plasticity.
DPM-A	Methoxy dipropyleneglycol acrylate	83844-54-6		L	2~3	300			102			Good adhesion. Excellent viscosity reducer.
P-200A	Phenoxy polyethylene glycol acrylate	56641-05-5	5001339	L	10~12	200			165		-25	Excellent viscosity reducer. Low Toxicity.
M-600A	2-Hydroxy-3-phenoxy propyl acrylate	16969-10-1	2410458	L	150~200	300			167		17	Good flexibility. Good adhesion.
NP-A	Neopentylglycol diacrylate	2223-82-7	2187415	L	5~6	150			115		117	Excellent folding resistance and scratch resistance.
MPD-A	3-Methyl 1,5 pentanediol diacrylate	64194-22-5	2647277	L	8	100			145		105	Excellent viscosity reducer. Good curing speed.
BEPG-A	2-Butyl-2-ethyl 1,3 propandediol diacrylate	67019-04-9		L	20	100			152		109	Good curing speed. Low volume shrinkage in polymerization. Improved water resistance.
MOD-A	2-Methyl-1,8 octanediol diacrylate 1, 9 Nonanediol diacrylate	120515-20-0 107481-28-7		L	10	100			164		88	Excellent viscosity reducer. Improved water resistance.
PTMGA-250	Polytetramethyleneglycol diacrylate	52277-33-5		L	15~20	100			197			Improved water resistance. Excellent viscosity reducer.
M-600A	2-Hydroxy-3-phenoxy propylacrylate			L	100~200	100			167			Good flexibility. Good adhesion. Good for CD-R's.
RHMA-M	Methyl $\alpha$ -(hydroxy methyl) acrylate	15484-46-5		L		200	1.388	60			146	Low viscosity and odor. Increased functionality and reactivity. Water absorbing capability. Applications in optical materials, glass compounds, pH reactive materials, textiles and woods.
RHMA-E	Ethyl $\alpha$ -(hydroxy methyl) acrylate	10029-04-6		L		200	1.238	65	109		64	
RHMA-B	Butyl $\alpha$ -(hydroxy methyl) acrylate	23873-58-7		L	12~16	200	1.16	86				
FA-108	Perfluoro octylethyl acrylate	27905-45-9	2487227	L		250			124			Water and oil repellent.
NP-4EA	Acrylate of ethylene oxide modified nonylphenol	50974-47-5			100	100			220			Low toxicity. Good Flexibility.
BP-4EA	Diacrylate of ethylene oxide modified bisphenol A	64401-02-1			700~900	400			220		75	Low toxicity. Low volume shrinkage in polymerization. Good curing speed.

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<b>ACRYLATES</b>												
70PA	Diacrylate of 70P				1000~1400	300			180			
200PA	Diacrylate of 200P				600~900	G-3						Good flexibility
80MFA	Diacrylate of 80MF				8000~13000	300						Good curing speed
AH-600	Reaction products with 2-Hydroxy-3-phenoxy propyl acrylate and hexamethylene diisocyanate				2000~4000	200			220			Urethane Acrylate
AT-600	Reaction products with 2-Hydroxy-3-phenoxy propyl acrylate and toluene diisocyanate				10000~20000	200			18.0			Urethane Acrylate
<b>OTHERS</b>												
NVP	N-Vinyl-2-pyrrolidone	88-12-0		L	2/25			215/14	98			Reactive diluent for radical initiated UV curing in inks, release coatings, woods and vinyl flooring.
HO-MS	2-Methacryloyloxyethyl succinic acid	20882-04-6	2440964	L		50			175	1000		Good for PSA's. Hydrolytically stable.
HOA-MS	2-Acryloyloxy ethyl succinate	50940-49-3			170~190	500					-40	Good adhesion
P-1M	2-Methacryloyloxyethyl acid phosphate	52628-03-2	2580532	L		50	1.35		142	1000		Good for Adhesives to artificial marble used in conjunction with fillers ( 80%) like PMMA as binder.
P-1A	2-Acryloyloxyethyl phosphate	32120-16-4	2509271		15000~30000	100			176			Good adhesion. Flame retardation.
HOA-MPL	2-Acryloyloxy ethyl phthalate	30697-40-6	2503018		5000~10000	100			146			Good adhesion
HOA-MPE	2-Acryloyloxy ethyl-2-hydroxy ethyl phthalate	38056-88-1	2537665		600~1300	100			131		10	Good Flexibility
HO-HH	2-Methacryloyloxyethyl hexahydrophthalate	51252-88-1		S(30)						1000		Good for PSA's
HO-MPP	2-Methacryloyloxyethyl 2-hydroxy propyl phthalate			L		100			211	1000		
HOA-HH	2-Acryloyloxyethyl hexahydro phthalate	57043-35-3			3000~9000	100		<b>g/eq</b>	157			Good adhesion
M-1230	Alkyl (C12/13) glycidyl ether				5~15	1(Gardner)		295-320	149			Low toxicity. Low viscosity.
40E	Ethylene glycol diglycidyl ether				15~35	1		125-140	157			Reactivity Hydrophilic
100E	Diethylene glycol diglycidyl ether				19~25	1		150-163	163			Excellent viscosity reducer. Hydrophilic. Reactivity
200E	PEG#200 diglycidyl ether				30~50	1		185-215	198			Aqueous solution
400E	PEG#400 diglycidyl ether				60~110	1		264-290	197			Aqueous solution
70P	Propylene glycol diglycidyl ether				10~40	1		140-160	147			Excellent viscosity reducer. Reactivity
200P	Tripropylene glycol diglycidyl ether				20~40	1		190-210	137			Good flexibility
400P	PPG#400 diglycidyl ether				40~60	1		300-330	220			Good flexibility
500NP	Neopeynty glycol diglycidyl ether				15~25	1		140-160	141			Excellent viscoisty reducer
1600	1,6 Hexanediol diglycidyl ether				15~25	1		140-160	163			Excellent viscosity reducer
80MF	Glycerine diglycidyl ether				140~170	1		138-160	214			Reactivity Hydrophilic
100MF	Triethylolpropane triglycidyl ether				108~168	1		135-145	193			Reactivity