

*Specialty Resins*

# Product Guide



**Key of Solution**



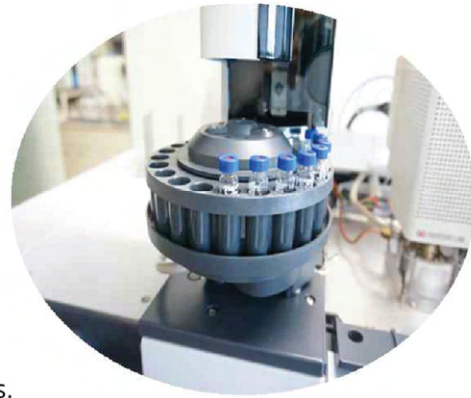
# About KELLON

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## Our philosophy

The company's philosophy is based on a high level of customer support with cutting edge technical data combined with up-to-date health, safety and regulatory information.

KELLON has the ability to provide local customized solutions and expertise in various application fields.



## Product development

The product development laboratory identifies new chemistries and solutions for our customers. Customer specific solutions and broader market-driven products are the results of this resource.

If you are looking for a special solution or simply help with finishing a formulation, contact to us.



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\* Physical properties index

- 1 Very low
- 2 Low
- 3 Moderate
- 4 Good
- 5 Very good

## KELLOMER Urethane acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER DS-201</b>	Light color Low odor Excellent flexibility Good adhesion to substrate High elongation Low shrinkage Non yellowing	2	IBOA 15	100 max	33,000	1.479	85	6,000	N/A	N/A	N/A
<b>KELLOMER DS-202</b>	Light color Low odor Excellent flexibility Good adhesion to substrate High elongation Low shrinkage Non yellowing	2	IBOA 15	100 max	8,000 (60°C)	1.479	85	3,000	N/A	N/A	N/A
<b>KELLOMER LP-2000</b>	Aliphatic urethane diacrylate Good adhesion Low shrinkage Good flexibility Non yellowing	2	-	100 max	5,000 (60°C)	1.481	100	7,000	95	900	F
<b>KELLOMER LP-2100</b>	Aliphatic urethane diacrylate Improved flexibility Good durability Non yellowing	2	Xylene 25	100 max	1,300	1.489	75	6,500	88	450	6B↓
<b>KELLOMER LP-2300</b>	Aliphatic urethane diacrylate Light color Low odor Good durability Good flexibility Non yellowing	2	Toluene 15	100 max	26,000	1.495	85	6,500	90	1,800	5B
<b>KELLOMER LP-2302</b>	Aliphatic urethane diacrylate Good scratch and abrasion resistance Superior stain resistance and Non yellowing Exterior durability, toughness	2	Toluene 20	100 max	5,000	1.495	80	6,000	91	1,800	2B
<b>KELLOMER LP-2502</b>	Aliphatic urethane diacrylate Low shrinkage Excellent flexibility Light color Non yellowing	2	-	100 max	1,300 (60°C)	1.489	100	12,700	96	4,500↑	6B↓
<b>KELLOMER LP-2503</b>	Aliphatic urethane diacrylate Good adhesion Low shrinkage Good flexibility Non yellowing Light color	2	IBOA 25	100 max	1,300	1.459	75	33,000	37	1,350	5B

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Woods, papers, and plastics coatings Flexible substrates coatings Good adhesion coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Woods, papers, and plastics coatings Flexible substrates coatings Good adhesion coatings
1,040	55	>100	1.6	129	4	2	4	4	5	2	Good adhesion coatings UV adhesives
780	75	>100	1.2	132	5	1	5	5	5	1	Lithographic and screen inks Coatings for wood, paper, plastic, metal Overprint varnish Laminating adhesive
1,590	45	>100	2.0	127	2	1	5	5	5	1	Adhesives and coatings for film, plastics, and paper etc. Coatings for flexible substrates Coatings requiring good adhesion
1,200	35	40	0.4	133	2	2	4	4	2	2	Adhesives and coatings for film, plastics, and paper etc. Coatings for flexible substrates with good adhesion
40	20	40	1.1	132	1	1	5	5	2	1	Good adhesion coatings UV adhesives Requiring Good adhesion
10	207	<5	2.0	129	3	1	5	5	1	1	Adhesives for film, plastics, and paper etc Coatings for woods, papers, and plastics Coatings for flexible substrates

## KELLOMER Urethane acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER LP-2514</b>	Aliphatic urethane diacrylate Low odor High molecular weight Excellent flexibility Good adhesion to substrate High elongation Low shrinkage Non yellowing	2	IBOA 35	100 max	37,000	1.481	65	10,000	94	1,350	6B
<b>KELLOMER LP-2552</b>	Aliphatic urethane diacrylate Low odor High molecular weight Excellent flexibility Good adhesion to substrate High elongation Low shrinkage	2	IBOA 20	200 max	226,000 (40°C)	1.476	80	20,300	76	1,350	2H
<b>KELLOMER LP-2566</b>	Aliphatic urethane diacrylate Light color Low odor Good durability Good flexibility Non yellowing	2	TPGDA 20	100 max	80,000	1.486	80	5,300	92	450	H
<b>KELLOMER LP-2716</b>	Aliphatic urethane diacrylate Light color Good flexibility, toughness Good abrasion resistance Excellent adhesion to surfaces Abrasion resistance	2	-	100 max	4,000	1.483	100	2,000	82	2,700	HB
<b>KELLOMER LP-2744</b>	Aliphatic urethane diacrylate Low odor, high molecular weight Excellent flexibility Good adhesion to substrate High elongation Low shrinkage Non yellowing	2	IBOA 20	200 max	360,000 (40°C)	1.470	80	63,000	N/A	N/A	N/A
<b>KELLOMER LP-2910EA</b>	Aliphatic urethane diacrylate Light color Good adhesion Low shrinkage Good flexibility	2	Ethyl acetate 50	100 max	300	1.425	50	12,000	83	450	3B
<b>KELLOMER LP-3000</b>	Aliphatic urethane triacrylate High tensile strength Good heat resistance Good scratch resistance Fast cure response	3	-	100 max	4,500 (60°C)	1.495	100	1,400	82	450	4B
<b>KELLOMER LP-3005</b>	Aliphatic urethane triacrylate High tensile strength Good heat resistance Good scratch resistance	3	TPGDA 15	100 max	48,000	1.488	85	3,700	95	450	3H

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
1,080	70	20	1.4	130	3	1	5	5	1	1	Adhesives for film, plastics, and paper etc. Coatings for woods, papers, and plastics Coatings for flexible substrates Coatings requiring good adhesion
520	290	<5	3.8	127	3	3	3	3	1	3	Adhesives for film, plastics, and paper etc. Coatings for woods, papers, and plastics Coatings for flexible substrates Coatings requiring good adhesion
4,800	50	<100	2.5	132	4	3	2	3	3	3	Coatings for wood, plastic Overprint varnishes Printing inks Fast cure response Coatings with good heat and scratch resistance
240	25	60	1.1	132	2	1	3	3	2	2	Adhesives for film, plastics, and paper etc Coatings for woods, papers, and plastics Coatings for flexible substrates
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Adhesives for film, plastics, and paper etc Coatings for woods, papers, and plastics Coatings for flexible substrates Coatings requiring good adhesion
760	57	50	4	128	3	1	5	5	1	1	Good adhesion coatings UV adhesives
6,502	5	<5	0.2	131	1	1	5	5	1	1	Coatings for wood, plastic Overprint varnishes Printing inks Coatings with good heat and scratch resistance
3H	6	5	4.7	127	1	4	2	2	1	4	Coatings for wood and plastic Overprint varnishes Printing inks Fast cure response Coatings with good heat

## KELLOMER Urethane acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER LP-3006</b>	Aliphatic urethane triacrylate High tensile strength Good heat resistance Good scratch resistance	3	HDDA 20	100 max	10,000	1.487	80	1,400	95	450	H
<b>KELLOMER LP-3100</b>	Aliphatic urethane triacrylate Excellent abrasion resistance Good flexibility Non yellowing	3	–	100 max	74,000	1.494	100	3,100	94	450	2H
<b>KELLOMER LP-3200</b>	Aromatic urethane triacrylate Excellent cure response Low odor Good hardness, toughness Good hydrolytic stability Good chemical resistance	3	TMPTA 30	200 max	58,000	1.499	70	2,000	94	450	3H
<b>KELLOMER LP-3430</b>	Aliphatic urethane triacrylate Good abrasion Good stain resistance Good surface curing Good flexibility, toughness Non yellowing Good durability	3	HDDA 15	100 max	61,000	1.478	85	3,200	95	1,350	HB
<b>KELLOMER LP-3503</b>	Aliphatic urethane triacrylate Excellent abrasion resistance Good flexibility Non yellowing	2	HDDA 13	100 max	17,700	1.486	87	7,500	N/A	N/A	N/A
<b>KELLOMER LP-6000</b>	Aliphatic urethane hexaacrylate Excellent cure response High hardness Excellent scratch resistance Excellent chemical resistance	6	–	100 max	2,500 (60°C)	1.492	100	6,000	94	450	5H
<b>KELLOMER LP-6016</b>	Aliphatic urethane hexaacrylate oligomer Excellent cure response High hardness Excellent scratch resistance Excellent chemical resistance Non yellowing	6	–	100 max	3,600	1.489	100	1,100	98	450	7H
<b>KELLOMER LP-6207</b>	Aliphatic urethane hexaacrylate Excellent cure response High hardness Excellent scratch resistance Excellent chemical resistance	6	–	100 max	16,000	1.487	100	12,000	93	450	2H



Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
1,770	5	5	4.2	132	5	3	3	3	1	3	Coatings for wood, plastic Overprint varnishes, screen inks Light stable coatings
4,070	30	50	2.0	132	1	3	3	3	4	3	Coatings for wood, plastic Coatings for PVC flooring Overprint varnishes Screen inks
5,040	10	<100	5.2	133	1	4	2	2	4	4	Coatings for wood, plastic and metal Coatings for PVC flooring Screen inks Fast cure response
3,510	35	80	2.6	129	3	3	3	3	4	3	Wood flooring and plastics coating Overprint varnishes Screen inks Clear coatings Light stable coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Wood flooring and plastics coating Overprint varnishes Screen inks
790	1	>100	3.2	130	5	4	2	2	5	4	Coating for plastic, film and plate Coatings requiring scratch and chemical resistance
900	2	>100	5.2	129	5	5	1	1	4	5	Coatings for plastic, film and plate Coatings requiring scratch and chemical resistance
1,150	2	>100	4.3	127	5	3	3	3	5	3	Coating for plastic, film and plate Coating requiring scratch and chemical resistance

## KELLOMER Urethane acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER LP-9000</b>	Aliphatic urethane multifunctional acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	15	–	100 max	5,400 (60°C)	1.494	100	17,400	76	450	8H
<b>KELLOMER LP-9010</b>	Aliphatic urethane multifunctional acrylate Very high hardness with flexibility Excellent scratch resistance Excellent chemical resistance Fast cure response	15	–	100 max	5,300 (60°C)	1.491	100	16,800	N/A	N/A	N/A
<b>KELLOMER LP-9011</b>	Aliphatic urethane multifunctional acrylate Very high hardness with flexibility Excellent scratch resistance Excellent chemical resistance Fast cure response	15	–	100 max	4,600 (60°C)	1.491	100	18,700	N/A	N/A	N/A
<b>KELLOMER LP-9012</b>	Aliphatic urethane multifunctional acrylate Very high hardness with flexibility Excellent scratch resistance Excellent chemical resistance Fast cure response	15	–	100 max	5,100 (60°C)	1.489	100	19,600	N/A	N/A	N/A
<b>KELLOMER LP-9205</b>	Aliphatic urethane decaacrylate Very high hardness Excellent scratch resistance Excellent chemical resistance	10	–	100 max	55,000	1.493	100	2,000	98	450	4H
<b>KELLOMER KA-1010</b>	Aliphatic urethane diacrylate Low odor Excellent flexibility Good adhesion to substrate High elongation Low shrinkage Non yellowing	2	–	100 max	13,000 (60°C)	1.462	100	29,000	86	2,260	6B
<b>KELLOMER KA-1020</b>	Aliphatic urethane diacrylate Low odor Excellent flexibility Good adhesion to substrate High elongation Low shrinkage Non yellowing	2	–	100 max	44,000	1.459	100	36,000	68	1,350	6B↓

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
1,077	1	100	0.7	134	5	5	1	1	4	5	Special coatings Coatings requiring scratch and chemical resistance
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance
650	2	>100	8.3	133	5	4	2	2	5	4	Special coatings Coatings requiring scratch and chemical resistance
60	55	5	4.5	129	1	1	5	5	1	1	UV adhesives
30	30	<5	1.2	118	3	1	5	5	1	1	UV adhesives

## KELLOMER Star branched acrylates

Product name	Description Key features	Functionality No.	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness	Tensile strength (PSI)
<b>KELLOMER STA-2001</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	35000	1	100.000	12000	N/A	N/A	N/A	N/A
<b>KELLOMER STA-2002</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	600	1	100.000	11000	N/A	N/A	N/A	N/A
<b>KELLOMER STA-2003</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	32000	1	100.000	10000	N/A	N/A	N/A	N/A
<b>KELLOMER STA-2004</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	15000	1	100.000	8900	98	450	9H↑	770
<b>KELLOMER STA-2010</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	25	100 max	46000	1	100.000	13000	99	450	9H↑	1880
<b>KELLOMER STA-2020</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	5,000 (60°C)	1	100.000	33000	98	450	9H↑	2080
<b>KELLOMER STA-2110</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	3800	1	100.000	580	N/A	N/A	N/A	N/A
<b>KELLOMER STA-2120</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	3400	1	100.000	580	N/A	N/A	N/A	N/A

Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
5	>100	5.09	132.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
10	>100	9.98	130.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
2	>100	14.51	130.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings

## KELLOMER Star branched acrylates

Product name	Description Key features	Functionality No.	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness	Tensile strength (PSI)
<b>KELLOMER STA-2130</b>	Star branched polyester acrylate high hardness with flexibility Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	4000	1	100.000	12700	92	450	8H	4100
<b>KELLOMER STA-2140</b>	Star branched polyester acrylate High hardness with flexibility Excellent scratch resistance Excellent chemical resistance Fast cure response	40	100 max	2900	1	100.000	14100	93	450	4H	4300
<b>KELLOMER STA-2150</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	40	100 max	3500	1	100.000	–	N/A	N/A	N/A	N/A
<b>KELLOMER STA-2310</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	13000	1	100.000	11000	97	450	8H	3300
<b>KELLOMER STA-2320</b>	Star branched polyester acrylate High hardness with flexibility Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	6000	1	100.000	11400	96	450	5H	3300
<b>KELLOMER STA-2330</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	20000	1	100.000	12600	97	450	8H	4100
<b>KELLOMER STA-2340</b>	Star branched polyester acrylate Very high hardness High tensile strength Excellent scratch resistance Excellent chemical resistance Fast cure response	20	100 max	22000	1	100.000	14300	96	450	8H	6100
<b>KELLOMER STA-3020</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	26000	1	100.000	–	N/A	N/A	N/A	N/A

Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
2	>100	5.8	133.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
2	>100	3.8	126.0	5	4	1	1	5	4	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
2	>100	4.2	131.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
3	>100	4.7	127.0	5	4	1	1	5	4	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
2	>100	4.4	129.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
2	>100	4.2	131.0	5	5	1	1	5	5	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings

## KELLOMER Star branched acrylates

Product name	Description Key features	Functionality No.	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness	Tensile strength (PSI)
<b>KELLOMER STA-4020</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	7500	1	100.000	–	N/A	N/A	N/A	N/A
<b>KELLOMER STA-6010</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	180	1	100.000	26000	N/A	N/A	N/A	N/A
<b>KELLOMER STA-6020</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	260	1	100.000	15000	N/A	N/A	N/A	N/A
<b>KELLOMER STA-6030</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	510	1	100.000	–	N/A	N/A	N/A	N/A
<b>KELLOMER STA-6040</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	650	1	100.000	–	N/A	N/A	N/A	N/A
<b>KELLOMER STA-6050</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	120	1	100.000	–	N/A	N/A	N/A	N/A
<b>KELLOMER STA-6060</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	220	1	100.000	–	N/A	N/A	N/A	N/A
<b>KELLOMER STA-7010</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	400	1	100.000	61000	N/A	N/A	N/A	N/A
<b>KELLOMER STA-7020</b>	Star branched polyester acrylate Very high hardness Excellent scratch resistance Excellent chemical resistance Fast cure response	30	100 max	510	1	100.000	64000	N/A	N/A	N/A	N/A



Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Special coatings Coatings requiring scratch and chemical resistance Flexible display coatings High hard coatings

## KELLOMER Low refractive index acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER FA-100</b>	Fluorine modified diacrylate Low refractive index	2	–	100 max	1,400	1.425	–	100	570	75	1800	3B
<b>KELLOMER FA-280</b>	Fluorine modified diacrylate Low refractive index	2	MIBK 30	100 max	30	1.406	–	70	3800	N/A	N/A	N/A
<b>KELLOMER FA-290</b>	Fluorine modified diacrylate Low refractive index	2	MIBK 30	100 max	30	1.401	–	70	4300	N/A	N/A	N/A
<b>KELLOMER FA-300</b>	Fluorine modified diacrylate Low refractive index Good hardness	2	–	100 max	1,700	1.426	–	100	1500	36	1800	4B
<b>KELLOMER FA-600HP</b>	Fluorine modified diacrylate Low refractive index Good hardness	6	–	100 max	37,300	1.464	–	100	2080	N/A	N/A	N/A
<b>KELLOMER FA-610E</b>	Fluorine modified diacrylate Low refractive index Good hardness	6	EA 5	100 max	3,900	1.445	–	95	1200	N/A	N/A	N/A
<b>KELLOMER FA-620E</b>	Fluorine modified diacrylate Low refractive index Good hardness	6	EA 5	100 max	5,300	1.437	–	95	1200	N/A	N/A	N/A
<b>KELLOMER FA-630</b>	Fluorine modified diacrylate Low refractive index Good hardness	6	MIBK 30	100 max	80	1.435	–	70	3700	N/A	N/A	N/A
<b>KELLOMER FA-640</b>	Fluorine modified diacrylate Low refractive index Good hardness	6	MIBK 30	100 max	790	1.430	–	70	3400	N/A	N/A	N/A
<b>KELLOMER FA-900HP</b>	Fluorine modified diacrylate Low refractive index Good hardness	10		100 max	111,600	1.480	–	100	6080	N/A	N/A	N/A
<b>KELLOMER FA-910</b>	Fluorine modified diacrylate Low refractive index Good hardness	10		100 max	5200 (60°C)	1.487	–	100	11000	N/A	N/A	N/A
<b>KELLOMER FA-920</b>	Fluorine modified diacrylate Low refractive index Good hardness	10		100 max	6900 (60°C)	1.491	–	100	13600	N/A	N/A	N/A
<b>KELLOMER FA-2003</b>	Fluorine modified diacrylate Low refractive index Good hardness	2		100 max	100	1.374	–	100	N/A	N/A	N/A	N/A

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	<5	3.6	121	4	2	2	3	1	2	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	<5	1.3	116	4	2	2	3	1	2	Anti-reflective coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-reflective coating Anti-finger coating Water and oil repellent coating

## KELLOMER LED curable acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )
<b>KELLOMER LEDA-100</b>	Polyester triacrylate LED curable acrylate Low viscosity High reactivity Low irritation Good chemical resistance	3	-	100 max	90	1.477	-	100	400	94	1,350
<b>KELLOMER LEDA-400</b>	Polyester tetraacrylate LED curable acrylate Low viscosity High reactivity Low irritation Good chemical resistance	4	-	100 max	100	1.486	-	100	430	N/A	N/A
<b>KELLOMER LEDA-500</b>	Polyester tetraacrylate LED curable acrylate Low viscosity High reactivity Low irritation Good chemical resistance	4	-	100 max	120	1.487	-	100	600	97	450
<b>KELLOMER LEDA-510</b>	Polyester tetraacrylate LED curable acrylate Low viscosity High reactivity Low irritation Good chemical resistance	4	-	100 max	100	1.486	-	100	600	N/A	N/A
<b>KELLOMER LEDA-610</b>	Polyester tetraacrylate LED curable acrylate Low viscosity High reactivity Low irritation Good chemical resistance	4	-	100 max	100	1.484	-	100	1,000	N/A	N/A
<b>KELLOMER LEDA-710</b>	Polyester tetraacrylate LED curable acrylate Low viscosity High reactivity Low irritation Good chemical resistance	4	-	100 max	350	1.491	-	100	1,200	N/A	N/A

## KELLOMER Epoxy acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )
<b>KELLOMER EA-4000</b>	Epoxy diacrylate Fast cure response Light color High gloss Good hardness	2	TPGDA 25	100 max	13,000	1.522	<4	75	570	90	450
<b>KELLOMER LP-2415TM</b>	Epoxy diacrylate Fast cure response Light color High gloss Good hardness	2	TMPTA 50	100 max	8,000	1.516	<3	50	570	93	450
<b>KELLOMER LP-4100</b>	Phenol novolac epoxy tetraacrylate Fast cure response Light color High surface hardness Good heat resistance Good adhesion to metals, particularly copper	4	TMPTA 50	100 max	12,000	1.522	<3	50	1,200	92	450
<b>KELLOMER LP-4200</b>	Phenol novolac epoxy tetraacrylate Fast cure response Light color High surface hardness	4	TMP(E O) <sub>3</sub> TA 50	100 max	6,000	1.520	<2	50	1,300	94	450

Pencil hardness	Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
3H	830	15	>100	1.7	137	3	4	2	2	5	4	LED curing Surface cure UV coating Oxygen free UV coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LED curing Surface cure UV coating Oxygen free UV coating
5H	410	20	>100	1.1	136	5	4	2	2	5	4	LED curing Surface cure UV coating Oxygen free UV coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LED curing Surface cure UV coating Oxygen free UV coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LED curing Surface cure UV coating Oxygen free UV coating
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LED curing Surface cure UV coating Oxygen free UV coating

Pencil hardness	Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
3H	3,500	2	>100	5.4	132	4	3	1	2	5	4	Lithographic, screen inks Coatings for paper, plastic and wood Overprint varnish
3H	1,600	2	>100	5.3	133	4	3	1	2	5	4	Lithographic, screen inks Coatings for paper, plastic and wood Overprint varnish
4H	1,700	2	>100	1	129	5	4	1	2	5	4	Solder resists for PCB Adhesion to metalized substrates Heat resistance applications
4H	2,630	3	>100	1	132	5	4	2	2	5	4	Solder resists for PCB Adhesion to metalized substrates Heat resistance applications

## KELLOMER Silicone acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER SA-200</b>	Aliphatic silicone diacrylate Low shrinkage Excellent flexibility Good adhesion to substrate Very low Tg	2	–	100 max	42,000	1.452	–	100	13,000	86	1,350	6B ↓
<b>KELLOMER SA-350</b>	Aliphatic silicone modified dimethacrylate Low shrinkage Excellent flexibility Good adhesion to substrate Very low Tg	2	–	100 max	25,000	1.456	–	100	11,000	N/A	N/A	N/A
<b>KELLOMER SA-6103</b>	Silicone hexaacrylate Good elastic property Good hardness Non yellowing	6	IBOA 10	100 max	23,000	1.465	–	90	15,000	89	450	2H
<b>KELLOMER SA-6104</b>	Silicone hexaacrylate Good elastic property Good hardness Non yellowing	6	IBOA 10	100 max	75,000	1.475	–	90	9,000	89	450	4H
<b>KELLOMER SA-9100</b>	Silicone decaacrylate Excellent cure response and flexibility Good hardness Good chemical resistance High gloss	10	TPGDA 10	100 max	24,000	1.478	–	90	14,000	97	450	3H

## KELLOMER Polyester acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER LP-1010</b>	Carboxylated polyester monoacrylate Acid functionality Alkali strippable Good adhesion to glass and metallic material	1	–	100 max	2,000	1.487	133.3	100	300	66	2,250	6B
<b>KELLOMER LP-1012</b>	Carboxylated polyester monoacrylate Acid functionality Alkali strippable Good adhesion to glass and metallic material	1	–	100 max	3,000	1.508	130.1	100	1,000	78	N/A	3B
<b>KELLOMER LK-4400</b>	Polyester tetraacrylate Excellent cure response	4	–	100 max	2,000	1.487	–	100	1,200	91	1,350	4H
<b>KELLOMER LK-4600</b>	Polyester hexaacrylate Excellent cure response High hardness	6	–	100 max	6,400	1.488	–	100	3,000	94	450	4H

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
170	20	>100	5.5	134	3	1	5	5	5	1	Adhesives for glass, film, and plastics etc. Coatings for flexible substrates Coatings requiring good adhesion
N/A	N/A	N/A	N/A	N/A	1	1	5	5	1	1	Adhesives for glass, film, and plastics etc. Coatings for flexible substrates Coatings requiring good adhesion
670	3	50	1.9	127	4	3	3	3	3	3	Coating and INK Electronics
780	1	80	1.6	129	4	3	3	3	3	3	Coating and INK Electronics
1,020	2	>100	3.8	133	5	4	2	2	5	4	UV hard coatings Coatings requiring scratch resistance and chemical resistance

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	5	1.2	128	2	1	4	4	2	2	Alkali-strippable etch resist for PCB Promote adhesion property for variety substrates
N/A	N/A	10	1.5	129	1	1	5	5	1	1	Alkali-strippable etch resist for PCB Promote adhesion property for variety substrates
N/A	N/A	>100	3.8	120	3	4	2	2	5	4	Coatings for paper, wood and plastic Paper upgrading Lithographic inks Coatings with good scratch and solvent resistance
N/A	N/A	>100	5.1	124	5	4	2	2	5	4	Coatings for paper, wood and plastic Paper upgrading Lithographic inks Coatings with good scratch and solvent

## KELLOMER High refractive index acrylates

Product name	Description Key Features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER LK-5007	Aromatic diacrylate High refractive index Good adhesion	2	PEA 20	300 max	30,000 (60°C)	1.590	-	80	2,800	88	450	2B
KELLOMER LK-5024	Bisfluorene modified diacrylate High refractive index Good hardness Fast cure response	2	-	100 max	10,000	1.600	<3	100	1,000	97	450	3B
KELLOMER LK-5025	Bisfluorene modified diacrylate High refractive index Good hardness Fast cure response	2	-	100 max	5,400	1.595	<3	100	1,000	71	450	3H
KELLOMER LK-5036	Bisfluorene modified diacrylate High refractive index Fast cure response	2	-	100 max	8,100	1.579	-	100	530	81	450	H

## KELLOMER Anti-fog acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER AFG-111	Anti-fog acrylate Low viscosity Good anti-fog effect Fast curing	2	MEK 60	100 max	8	1.415	-	40	1,000	N/A	N/A	N/A
KELLOMER AFG-510	Anti-fog acrylate Low viscosity Good anti-fog effect Fast curing	2	MEK 60	200 max	7	1.415	-	40	1,300	N/A	N/A	N/A
KELLOMER AFG-511	Anti-fog acrylate Low viscosity Good anti-fog effect Fast curing	2	MEK 60	200 max	6	1.417	-	40	1,300	N/A	N/A	N/A

## KELLOMER Anti-virus acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER AVA-7010	Anti-virus acrylate Excellent anti-virus effect Excellent cure response High hardness Excellent scratch resistance Excellent chemical resistance	-	-	100 max	3,700	1.489	-	100	N/A	N/A	N/A	N/A
AVA-7020	Anti-virus acrylate Excellent anti-virus effect Excellent cure response High hardness Excellent scratch resistance Excellent chemical resistance Non-yellowing	-	-	100 max	22,400	1.491	-	100	N/A	N/A	N/A	N/A



Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
770	13	<5	1.5	144	5	2	4	4	1	2	Display Optical lenses High refractive index coating
7,800	5	<5	3.4	147	3	3	2	3	1	2	Display Optical lenses High refractive index coating
590	6	<5	2.4	140	5	4	2	2	1	4	Display Optical lenses High refractive index coating
1,600	45	<5	1.1	142	5	3	3	3	1	3	Display Optical lenses High refractive index coating

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-fog coating for films
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-fog coating for films
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-fog coating for films

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-virus coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Anti-virus coatings

## KELLOMER Acrylic acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER AA-2010	Acrylic acrylate	1	–	100 max	30,000	1.470	–	100	N/A	N/A	N/A	N/A
KELLOMER LP-2205	Acrylic diacrylate High molecular weight Low shrinkage Good adhesion to substrate Non yellowing	2	HDDA 50	100 max	48,000	1.475	–	50	45,000	64	450	2H
KELLOMER LP-2209	Acrylic monoacrylate High molecular weight Low shrinkage Good adhesion to substrate	1	2-HPA 70	100 max	3,000	1.458	–	30	40,000	68	450	6B↓

## KELLOMER Butadiene acrylate

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER BD-1200	Butadiene modified diacrylate Excellent flexibility High elongation Low shrinkage Non yellowing	2	IDA 30	100 max	5,400	1.471	–	70	8,700	92	450	6B↓
KELLOMER BD-3130	Butadiene modified diacrylate Excellent flexibility High elongation Low shrinkage Non yellowing	2	LMA 20	100 max	10,400	1.471	–	80	6,400	N/A	N/A	N/A
KELLOMER BD-3140	Butadiene modified diacrylate Excellent flexibility High elongation Low shrinkage Non yellowing	2	LMA 20	100 max	9,300	1.470	–	80	6,400	N/A	N/A	N/A

## KELLOMER Silane modified acrylate

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER LK-6001	Silane modified polyester pentaacrylate Good scratch resistance	5	–	200 max	7,000	1.488	<2	100	720	99	450	3H

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Coatings for plastic, film and plate Coatings requiring good adhesion UV adhesives
1,546	2	10	2.8	128	5	3	3	3	1	3	Coatings for plastic, film and plate Coatings requiring good adhesion UV adhesives
N/A	N/A	10	3.3	130	5	1	5	5	1	1	Coatings for plastic, film and plate Coatings requiring good adhesion UV adhesives

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
660	48	<5	1.5	128	3	1	5	5	1	1	UV adhesives Good adhesion to substrate
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UV adhesives Good adhesion to substrate
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UV adhesives Good adhesion to substrate

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
710	1	>100	6.8	133	5	4	1	4	4	4	Coatings requiring scratch resistance and hardness

## KELLOMER Bio based acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm2)	Pencil hardness	Tensile strength (PSI)
KELLOMER BM-1000	Polyester diacrylate Good scratch and abrasion resistance Superior stain resistance Exterior durability, toughness	2	–	300 max	4,000	1.484	100	1600	N/A	N/A	N/A	N/A
KELLOMER BM-2000	Polyester diacrylate Good scratch and abrasion resistance Superior stain resistance Exterior durability, toughness	2	–	300 max	4,000	1.484	100	1600	N/A	N/A	N/A	N/A
KELLOMER BM-3000	Polyester diacrylate Good scratch and abrasion resistance Superior stain resistance Exterior durability, toughness	2	–	300 max	3,700	1.484	100	1600	N/A	N/A	N/A	N/A

## KELLOMER Amine acrylates

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm2)	Pencil hardness	Tensile strength (PSI)
KELLOMER AM-201	Amine modified polyether diacrylate Excellent cure response Good flexibility Good scratch resistance Good abrasion resistance	2	–	100 max	400	N/A	100	1000	N/A	N/A	N/A	N/A
KELLOMER AM-301	Amine modified polyether triacrylate Excellent cure response Good flexibility Good scratch resistance Good abrasion resistance	3	–	100 max	100	N/A	100	450	N/A	N/A	N/A	N/A

## KELLOMER Water based acrylate

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm2)	Pencil hardness	Tensile strength (PSI)
KELLOMER PUDA-2500	UV polyurethane dispersion diacrylate Light color Low odor High elongation Good flexibility Good durability Non yellowing	2	Water 63	Opaque	75	1.383	37	N/A	N/A	N/A	N/A	N/A

## KELLOMER Melamine acrylate

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm2)	Pencil hardness	Tensile strength (PSI)
KELLOMER KM-1060	Melamine triacrylate Fast cure response Light color High gloss Good hardness	3	–	100 max	1,200	1.515	100	1260	73	450	F	30

Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	3	2	3	3	2	2	Coating for wood, plastic Fast cure response Scratch resistance coating
N/A	N/A	N/A	N/A	3	2	3	3	2	2	Coating for wood, plastic Fast cure response Scratch resistance coating
N/A	N/A	N/A	N/A	3	2	3	3	2	2	Coating for wood, plastic Fast cure response Scratch resistance coating

Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	4	2	3	3	3	3	UV flexo inks UV screen inks Overprint varnishes Wood coatings UV coatings and inks for plastic
N/A	N/A	N/A	N/A	4	2	3	3	3	3	UV flexo inks UV screen inks Overprint varnishes Wood coatings UV coatings and inks for plastic

Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	1	1	5	4	1	1	UV waterborne coating

Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
17	<5	1.2	135	5	2	4	4	1	2	Heat resistant coating

# KELLOMER Monomers

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER LP-1030</b>	Monofunctional polycaprolactone acrylate Good flexible Excellent soft feeling touch Good scratch resistance Hydroxyl group	1	–	100 max	100	1.465	–	100	1,100	52	N/A	6B↓
<b>KELLOMER LP-1036</b>	Monofunctional polycaprolactone acrylate Good flexible Excellent soft feeling touch Good scratch resistance Hydroxyl group	1	Xylene 20	200 max	250	1.477	–	80	1,200	N/A	N/A	N/A
<b>KELLOMER LP-1301</b>	Polycaprolactone triacrylate Good flexible Excellent soft feeling touch Good scratch resistance Hydroxyl group	3	–	100 max	1,200	1.485	–	100	450	98	450	9H↑
<b>KELLOMER LP-1302</b>	Polycaprolactone triacrylate Good flexible Excellent soft feeling touch Good scratch resistance Hydroxyl group	3	–	100 max	1,200	1.485	–	100	1,400	98	450	HB
<b>KELLOMER LP-1303</b>	Polycaprolactone triacrylate Good flexible Excellent soft feeling touch Good scratch resistance Hydroxyl group	3	–	100 max	1,300	1.481	–	100	1,700	97	450	HB
<b>KELLOMER LM-1003</b>	Hydroxy phenoxy propyl monoacrylate High refractive index Good adhesion	1	–	200 max	130	1.525	<2	100	220	N/A	N/A	N/A
<b>KELLOMER LM-6002</b>	Modified dipentaerythritol hexaacrylate Low odor Low skin irritation Low viscosity	6	–	200 max	1,260	1.483	<1	100	1,000	73	453	H

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index (ΔE)	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	60	1.2	127	5	1	5	5	3	1	Monomer for acrylic resin UV curing system in plastic Solvent based coatings UV curable coatings and adhesives
N/A	N/A	N/A	N/A	N/A	5	1	5	5	1	1	Monomer for acrylic resin UV curing system in plastic Solvent based coatings UV curable coatings and adhesives
1,190	2	>100	4.06	132	5	5	1	1	5	5	Monomer for acrylic resin UV curing system in plastic Solvent based coatings UV curable coatings and adhesives
1,190	2	>100	3.2	133	5	5	1	1	5	5	Monomer for acrylic resin UV curing system in plastic Solvent based coatings UV curable coatings and adhesives
N/A	N/A	50	2.19	129	5	2	4	4	2	2	Monomer for acrylic resin UV curing system in plastic Solvent based coatings UV curable coatings and adhesives
N/A	N/A	N/A	N/A	N/A	2	1	4	5	1	1	Monomer for acrylic resin UV curing system in plastic Solvent based coatings UV curable coatings and adhesives
40	2	20	1.4	135	5	3	3	3	3	3	Plastics and metal coatings Inks

## KELLOMER Alkaline developable photoresist binders

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER BP-3201	Acrylic copolymer with carboxyl group Alkaline developable carboxyl group Good hardness Good adhesion Double bond	–	DPM 35	100 max	15,000	1.468	103.3	65	7,000	N/A	N/A	N/A
KELLOMER BP-3202	Acrylic copolymer with carboxyl group Alkaline developable Carboxyl group Good hardness Good adhesion Double bond	–	DPM 36	100 max	12,000	1.468	88.5	64	7,800	N/A	N/A	N/A
KELLOMER LP-5102	Modified epoxy tetraacrylate with carboxyl group Alkaline developable Carboxyl group Good hardness Good adhesion	4	Carbitol acetate 35	600 max	9,500 (60°C)	1.509	61.8	65	7,600	450	6B↓	410
KELLOMER LP-5104	Modified epoxy tetraacrylate with carboxyl group Alkaline developable Carboxyl group Good hardness Good adhesion	4	Carbitol acetate 30	600 max	40,000 (60°C)	1.519	80.7	70	7,500	450	6B↓	N/A

## KELLOMER Adhesion promoters

Product name	Description Key features	Functionality No.	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Acid value (mgKOH/g)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
KELLOMER LM-1117	Polyester monoacrylate monomer Low odor Excellent flexibility High elongation Low shrinkage	1	–	100 max	120	1.459	–	100	1,330	59	2,250	6B↓
KELLOMER LM-1118	Polyester monoacrylate monomer Low odor Excellent flexibility High elongation Low shrinkage. Non yellowing	1	–	100 max	30	1.449	–	100	560	85	1,800	6B



Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	N/A	3	2	2	2	2	2	LCD color filter resist resin LCD color paste resin (=Mill base resin) Touch panel silver paste Photosensitive paste Semiconductor photo resist
N/A	N/A	N/A	N/A	N/A	3	2	2	2	2	2	LCD color filter resist resin LCD color paste resin (=Mill base resin) Touch panel silver paste Photosensitive paste Semiconductor photo resist
410	5	<10	2	135	4	3	2	2	2	2	LCD color filter resist resin LCD color paste resin Touch panel silver paste Photosensitive paste Semiconductor photo resist All negative photo resist
N/A	N/A	<10	9	132	4	3	2	2	2	2	LCD color filter resist resin LCD color paste resin Touch panel silver paste Photosensitive paste Semiconductor photo resist All negative photo resist

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	<5	3.9	130	1	1	5	5	1	1	Adhesion promotor UV adhesives
N/A	N/A	<5	1	124	1	1	5	5	1	1	Adhesion promotor UV adhesives

## KELLOMER Organic-inorganic hybrid materials

Product name	Description Key features	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	Refractive index (25°C)	Polymer solid (%)	Molecular weight (Mw, g/mol)	Gel content (%)	Cure speed (dosage, mJ/cm <sup>2</sup> )	Pencil hardness
<b>KELLOMER SP-13</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Methanol 22 Water 14	100 max	10	1	64.000	2100	N/A	N/A	N/A
<b>KELLOMER SP-43</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Methanol 20 Water 11	100 max	70	1	69.000	1300	N/A	N/A	N/A
<b>KELLOMER SP-701</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 13 Water 11	100 max	8	1	76.000	2100	N/A	N/A	N/A
<b>KELLOMER SP-707</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 23 Water 10	100 max	9	1	67.000	2700	N/A	N/A	N/A
<b>KELLOMER SP-708</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 23 Water 10	100 max	11	1	67.000	1900	N/A	N/A	N/A
<b>KELLOMER SP-709</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 23 Water 10	100 max	13	1	67.000	1800	N/A	N/A	N/A
<b>KELLOMER SP-721</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 23 Water 10	100 max	12	1	67.000	1300	N/A	N/A	N/A
<b>KELLOMER SP-722</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 13 Water 10	100 max	14	1	77.000	1300	N/A	N/A	N/A
<b>KELLOMER SP-729</b>	Organic-inorganic hybrid sol-gel polymer Low viscosity Low refractive index Good adhesion on glass	Ethanol 23 Water 10	100 max	7	1	67.000	N/A	N/A	N/A	N/A

Tensile strength (PSI)	Elongation (%)	Solvent resistance (MEK rubbing)	Yellow index ( $\Delta E$ )	Gloss (60°)	Reactivity	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Applications
N/A	N/A	N/A	N/A	N/A	N/A	5	1	3	4	4	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	5	1	3	4	4	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Silicone hard coatings Glass coatings Anti finger printing coatings

## KELLOCRYL Acrylic resins

Product name	Description Key features	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	OH% (solution)	Acid value (mgKOH/g)
<b>KELLOCRYL LB-1081</b>	Acrylic resin Acrylic polyol Excellent compatibility with CAB Long shelf life	Xylene 15, PMA 15	100 max	2,000	2.52	8.4
<b>KELLOCRYL LB-1102</b>	Acrylic resin Acrylic polyol Good adhesion to metal Excellent hardness Excellent gloss	n-Butyl acetate 48	100 max	5,300	1.04	4.4
<b>KELLOCRYL LB-1104</b>	Acrylic resin Good adhesion to glass surface Excellent hardness Excellent gloss Low viscosity	Toluene 35, Butyl cellosolve 15	300 max	10,000	-	1.9
<b>KELLOCRYL LB-1112</b>	Acrylic resin Acrylic polyol In conjunction with melamine or other resin for the manufacture of stoving enamel Good adhesion to glass surface Excellent hardness and gloss	Xylene 30, n-Butanol 21	100 max	300	0.26	4.6
<b>KELLOCRYL LB-1205</b>	Acrylic resin Acrylic polyol Good sagging limit Excellent mechanical properties	n-Butyl acetate 65	100 max	1,100	2.14	2.7
<b>KELLOCRYL LB-1280</b>	Acrylic resin Acrylic polyol In conjunction with melamine or other resin for the manufacture of stoving enamel Good adhesion to metal surface	Xylene 27, n-Butanol 22	100 max	500	2.62	11.3
<b>KELLOCRYL LB-1304</b>	Acrylic resin Acrylic polyol High gloss High hardness, fast curing	Toluene 41, MIBK 10	100 max	44,000	0.22	8.0
<b>KELLOCRYL LB-1406</b>	Acrylic resin Acrylic polyol Good adhesion to glass surface Excellent hardness Excellent gloss Low viscosity	Toluene 44, n-Butyl acetate 11	100 max	10,300	0.20	2.7
<b>KELLOCRYL LB-1500</b>	Acrylic resin Acrylic polyol Good hardness Excellent compatibility with epoxy resins	Xylene 24, n-Butyl acetate 16	100 max	1,700	1.5	4.4
<b>KELLOCRYL LB-1803</b>	Acrylic resin Acrylic polyol Good adhesion Fast drying	Toluene 33, PMA 17	100 max	2,000	1.5	2.6
<b>KELLOCRYL LB-1808</b>	Acrylic resin Acrylic polyol Good adhesion High gloss	Toluene 27, n-Butyl acetate 14, PMA 3	100 max	1,000	1.32	4.4
<b>KELLOCRYL LB-1871</b>	Acrylic resin Acrylic polyol Good adhesion, levelling High gloss Excellent compatibility with other resins	Xylene 17, PMA 17	100 max	7,000	2.2	3.4

Tg (°C)	Molecular weight (Mw, g/mol)	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
26	8,500	4	1	1	2	2	Two-component polyurethane coating for wood and plastic
68	22,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic
90	50,000	4	1	1	4	4	Thermoplastic acrylic paints for concrete wall
17	28,000	4	1	1	2	2	Stoving enamel for general uses
82	50,000	3	2	3	3	3	Two-component polyurethane coating for wood Under coatings and top coatings
-10	57,000	1	5	4	1	1	Stoving enamel for general uses
70	93,000	3	2	3	3	3	Two-component polyurethane coating for various substrates
95	60,000	4	1	1	4	4	Primer or pigment extender for plastics
66	10,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic
32	48,000	4	1	1	2	2	Two-component polyurethane coating for wood
25	24,000	4	1	1	2	2	Two-component polyurethane coating for metal and wood
34	12,000	4	1	1	2	2	Two-component polyurethane coating for ABS and PE other plastic substrates Top coatings

## KELLOCRYL Acrylic resins

Product name	Description Key features	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	OH% (solution)	Acid value (mgKOH/g)
<b>KELLOCRYL LB-1902</b>	Acrylic resin Acrylic polyol Good hardness Excellent compatibility with epoxy resins	Xylene 26, n-Butyl acetate 14	100 max	6,000	1.16	6.3
<b>KELLOCRYL LB-1930</b>	Acrylic resin Acrylic polyol Very good hardness High gloss, good adhesion Very high reactivity	Toluene 27, Ethyl acetate 8, n-Butyl acetate 9	100 max	1,700	1.32	4.0
<b>KELLOCRYL LB-2014</b>	Acrylic resin Weatherability Fast drying Gloss	Toluene 17, Xylene 32	100 max	6,000	–	12.0
<b>KELLOCRYL LB-2059</b>	Acrylic resin Good adhesion to various surface Fast drying	Toluene 50	100 max	2,000	–	1.9
<b>KELLOCRYL LB-2080</b>	Acrylic resin Acrylic polyol Weatherability Good adhesion	Toluene 28, Ethyl acetate 22	100 max	2,000	0.12	1.1
<b>KELLOCRYL LB-2088</b>	Acrylic resin Good adhesion Good hardness	Toluene 23, n-Butyl acetate 6 n-Butanol 21	100 max	4,700	–	1.1
<b>KELLOCRYL LB-2116</b>	Acrylic resin Acrylic polyol resin Good flexibility Good adhesion	Xylene 38, n-Butanol 13	100 max	400	1.08	7.7
<b>KELLOCRYL LB-2130</b>	Acrylic resin Good adhesion Moderate hardness	MEK 44, Toluene 11	100 max	32,000	–	1.3
<b>KELLOCRYL LB-2200</b>	Acrylic resin Good adhesion Moderate hardness	MIBK 50	100 max	1,400	–	12.4
<b>KELLOCRYL LB-2450</b>	Acrylic resin Acrylic polyol Non yellowing, low odor Excellent compatibility with CAB or other vinyl resins Good adhesion to plastics, wood	PMA 25, Xylene 25	100 max	2,900	1	6.5
<b>KELLOCRYL LB-2515</b>	Acrylic resin Acrylic polyol High gloss, Good levelling	n-Butyl acetate 13, Xylene 19	100 max	5,200	2.72	7.4
<b>KELLOCRYL LB-2565</b>	Acrylic resin Acrylic polyol High gloss Good levelling	n-Butyl acetate 22, Xylene 9	100 max	2,500	1.67	6.9

Tg (°C)	Molecular weight (Mw, g/mol)	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
86	16,000	3	2	3	3	3	Two-component polyurethane coating for various substrates
62	16,000	3	2	3	3	3	Two-component polyurethane coating for plastics
42	40,000	3	2	3	3	3	Thermoplastic acrylic paints for concrete wall
41	63,000	3	2	3	3	3	Thermoplastic acrylic paint for plastics
29	76,000	4	1	1	2	2	Thermoplastic acrylic paint for metals and woods
66	42,000	3	2	3	3	3	Thermoplastic acrylic paint for plastics
20	48,000	4	1	1	2	2	Two-component polyurethane coating for wood and plastic
48	140,000	3	2	3	3	3	Thermoplastic acrylic paint for plastics
40	52,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic
48	28,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic Under coatings and Top coatings
40	10,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic
60	7,500	3	2	3	3	3	Two-component polyurethane coating for wood and plastic

## KELLOCRYL Acrylic resins

Product name	Description Key features	Diluent (%)	Color (APHA)	Viscosity (cps, 25°C)	OH% (solution)	Acid value (mgKOH/g)
<b>KELLOCRYL LB-2807</b>	Acrylic resin Acrylic polyol Good outdoor durability High gloss Good adhesion	PMA 18, Xylene 8, n-Butyl acetate 14	100 max	5,500	1.81	5.2
<b>KELLOCRYL LB-2900</b>	Acrylic resin Acrylic polyol High gloss, Good levelling	PMA 13 Xylene 27	100 max	3,000	1.41	7.4
<b>KELLOCRYL LB-2904</b>	Acrylic resin Acrylic polyol Good adhesion, hardness Heat resistance	Xylene 24, n-Butyl acetate 5	100 max	23,000	2.40	2.6
<b>KELLOCRYL LB-2934</b>	Acrylic resin Acrylic polyol High gloss	n-Butyl acetate 14, Xylene 13	100 max	5,000	1.48	6.0
<b>KELLOCRYL LB-3020</b>	Acrylic resin Acrylic polyol Good adhesion to glass surface Excellent hardness high gloss, low viscosity	n-Butyl acetate 45	100 max	4,500	1.04	8.0
<b>KELLOCRYL LB-3405</b>	Acrylic resin Acrylic polyol Good adhesion to glass surface Excellent hardness High gloss, low viscosity	MEK 50	100 max	6,000	0.13	6.5
<b>KELLOCRYL LB-3406</b>	Acrylic resin Acrylic polyol Good metallic orientation Good solvent resistance for solvent borne clear coat	Toluene 37, n-Butyl acetate 28	100 max	350	0.13	12.0
<b>KELLOCRYL LB-3407</b>	Acrylic resin Acrylic polyol Good adhesion to UV coating Compatibility with CAB/NC	Toluene 33, n-Butanol 18	100 max	7,400	0.26	1.0
<b>KELLOCRYL LB-3409</b>	Acrylic resin Acrylic polyol Good adhesion to glass surface Excellent hardness Excellent gloss Low viscosity	n-Butyl acetate 61	100 max	100	0.13	4.7
<b>KELLOCRYL LB-3410</b>	Acrylic resin Good levelling Good adhesion	Aromatic naphtha 47	100 max	200	-	2.0
<b>KELLOCRYL LB-3411</b>	Acrylic resin Good adhesion Good hardness and solvent resistance	Toluene 50	100 max	5,000	-	3.1
<b>KELLOCRYL LB-9003</b>	Acrylic resin Acrylic polyol Good adhesion to glass surface Excellent hardness Excellent gloss Low viscosity	Xylene 30, n-Butanol 20	100 max	150	1.11	3.4
<b>KELLOCRYL LB-9004</b>	Acrylic resin Acrylic polyol Good adhesion to glass surface Excellent hardness Excellent gloss Low viscosity	Xylene 31, n-Butanol 20	100 max	700	1.11	4.4



Tg (°C)	Molecular weight (Mw, g/mol)	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
20	24,000	4	1	1	2	2	Two-component polyurethane coating for wood and plastic
50	7,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic
70	8,000	3	2	3	3	3	For optical film coating Urethane for plastic (ABS,FRP,PVC) For nonferrous metals (Al, Sn)
0	7,000	4	1	1	2	2	Two-component polyurethane coating for wood and plastic
130	30,000	4	1	1	4	4	Tow-component polyurethane coating for various substrates
90	53,000	4	1	1	4	4	Two-component polyurethane coating for wood and plastic
50	50,000	3	2	3	3	3	Automotive or refinish base coatings Plastics base coatings
65	92,000	3	2	3	3	3	Engineering plastics (ABS, PS, PC ...) cases
130	16,000	4	1	1	4	4	Tow-component polyurethane coating for various substrates
-50	5,800	1	5	4	1	1	Levelling agent for coating and ink
-7	110,000	1	5	4	1	1	Levelling agent for coating and ink
18	16,000	4	1	1	2	2	Two-component polyurethane coating for wood and plastic
54	22,000	3	2	3	3	3	Two-component polyurethane coating for wood and plastic

## KELLOSTER Polyester resins

Product name	Description Key features	Diluent (%)	Color (gardner)	Viscosity (gardner, 25°C)	OH% (solution)	Acid value (mgKOH/g)
<b>KELLOSTER LE-1370</b>	Wax type unsaturated polyester resin Good sagging limit and high build High gloss	Styrene monomer 36	2 max	R – T	–	30 max
<b>KELLOSTER LE-1825</b>	Wax type unsaturated polyester resin High gloss Good buffing properties	Styrene monomer 40	2 max	L – M	–	40 max
<b>KELLOSTER LE-1827</b>	Wax type unsaturated polyester resin High gloss Good buffing properties	Styrene monomer 36	2 max	L – O	–	55 max
<b>KELLOSTER LE-5000</b>	Wax free type unsaturated polyester resin Low yellowing Excellent transparency and gloss, smoothness Good mixing with pigments or fillers	Styrene monomer 25	2 max	V – X	–	20 max
<b>KELLOSTER LE-5008</b>	Wax free type unsaturated polyester resin High gloss Good hardness High reactivity	Styrene monomer 30	2 max	R – T	–	37 max
<b>KELLOSTER LE-5500</b>	Wax free type unsaturated polyester resin Easy to sanding Good levelling Styrene tolerance 300%	Styrene monomer 30	2 max	V – X	–	30 max
<b>KELLOSTER LE-5940</b>	Wax free type unsaturated polyester resin High build film, low viscosity	Styrene monomer 35	2 max	J – L	–	40 max

Polymer solid (%)	Gel time (min)	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
64	10	3	1	2	3	3	Spray coating for musical instrument and wood furniture
60	13	3	1	1	3	3	Curtain flow coating for musical instrument and wood furniture
64	11	3	1	1	3	3	Curtain flow coating for musical instrument and wood furniture
75	30	3	2	2	2	2	Plasticising resin for REDOX and UV curing system Polyester top coating for wood Musical instruments
70	-	4	1	3	4	4	Curtain flow coating for musical instrument and wood furniture Highly reactivity direct gloss polyester resin for use in bot UV and REDOX curing system
70	30	2	2	2	2	2	Polyester sanding sealer Middle coat Surfacer coat for furniture, musical instruments
65	-	2	2	2	2	2	Spray coating for wood

## KELLOKYD Alkyd resins

Product name	Description Key features	Diluent (%)	Color (gardner)	Viscosity (gardner, 25°C)	OH% (solution)	Acid value (mgKOH/g)
KELLOKYD LD-1012	Very short oil alkyd resin Fast drying Excellent hardness High gloss	Xylene 30, MIBK 10	3 max	Z <sub>3</sub> - Z <sub>5</sub>	2.88	25 max
KELLOKYD LD-1025	Very short oil alkyd resin Good adhesion to steel Good hardness	Xylene 40	7 max	Z <sub>3</sub> - Z <sub>5</sub>	2.01	20 max
KELLOKYD LD-1026	Very short oil alkyd resin Good hardness and gloss Excellent adhesion and crack resistance	Xylene 50	7 max	X - Z	1.67	18 max
KELLOKYD LD-1030	Very short oil alkyd resin Fast drying Excellent hardness	Xylene 48	6max	X - Z	3.05	20max
KELLOKYD LD-2055	Short oil alkyd resin Fast drying Good workability Easy to sand	Toluene 45	8 max	Z <sub>2</sub> - Z <sub>4</sub>	3.52	20 max
KELLOKYD LD-3440	Medium oil alkyd resin Easy to sanding Fast drying	Toluene 40	8 max	Z <sub>3</sub> - Z <sub>5</sub>	2.61	15 max
KELLOKYD LD-5500	Styrene modified alkyd resins Fast air drying	Xylene 2, Toluene 33	8 max	R - T	-	16 max
KELLOKYD LD-6860	Modified alkyd resin Good reactivity and hardness, adhesion Very good chemical resistance	n-Butyl acetate 40	5 max	T - V	2.84	3 max

## KELLOMIN Amino Resins

Product name	Description Key features	Solvent	Color (gardner)	Viscosity (gardner, 25°C)	OH% (solution)	Acid value (mgKOH/g)
KELLOMIN LA-2605	Melamine resin In conjunction with alkyd resin and acrylic resin for the manufacture of stoving enamel Good film hardness, body, gloss and alkali resistance Excellent exterior durability	N-butyl alcohol	1max	L-N	-	1max

## KELLONATE Polyisocyanates

Product name	Description Key features	Solvent	Color (gardner)	Viscosity (gardner, 25°C)	NV(%)	NCO(%)
KELLONATE LC-1770	Polyisocyanate resin Aromatic Hardness Compatibility with polyol, solvent Solubility Cold-proof	Ethyl acetate	1max	T-V	68±2	18.5-19.5%

Polymer solid (%)	Oil type	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
60	COFA	4	1	1	4	4	Urethane top or under coatings for wood
60	SOFA	2	4	4	2	2	In conjunction with melamin resin for the manufacture of baking
50	TOFA	2	4	4	2	2	Tow-component polyurethane coating for wood
52	SOFA	4	2	2	4	4	Urethane sanding sealer for wood Top coat Finish
55	SOFA	3	2	2	2	2	Urethane sanding sealer for wood
60	TOFA	3	1	1	3	3	Tow-combination urethane sanding sealer
65	modified	3	1	1	3	3	Nitrocellulose coatings and enamels for wood
60	N/A	4	1	3	4	4	Two-combination urethane wood sealer Rose sealer

NV(%)	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
60±2	4	1	3	4	4	Stoving finishes for temperatures over 100 °C automotive finishes and primer-surfacers

Monomer(%)	Hardness	Flexibility	Adhesion	Chemical resistance	Scratch resistance	Application
1.2%max	4	1	3	4	4	Aromatic adduct for glossy polyurethane coatings or for use as plasticising partner for more brittle isocyanates







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