



Products	Product description	Key features
<b>Oligomers / Diluting acrylates</b>		
DPGDA	Dipropylene glycol diacrylate	Good cure speed and flexibility.
EBECRYL™ 40*	Polyether tetraacrylate	Low shrinkage and high reactivity.
EBECRYL 80	Amine modified polyether acrylate	High reactivity and nitrogen content: 1.5%.
EBECRYL 81	Amine modified polyether acrylate	High reactivity combined with good diluting power and nitrogen content: 1.4%.
EBECRYL 83	Amine modified polyether acrylate	High reactivity. Low viscosity and low residual odor. Non-irritating. Nitrogen content: 1.0%.
EBECRYL 113 <b>NEW</b>	Aliphatic monoacrylate	Low odor and good flexibility and general purpose use.
EBECRYL 145	Propoxylated neopentylglycol diacrylate	Xi-free aliphatic difunctional acrylate of low surface tension.
EBECRYL 160	Ethoxylated trimethylol propane triacrylate	More flexible than TMPTA. Good hardness, high gloss and fast cure speed.
EBECRYL 210	Aromatic difunctional urethane acrylate	Undiluted, good flexibility and general purpose.
EBECRYL 220	Aromatic hexafunctional urethane acrylate	Fast cure, high hardness and solvent resistance.
EBECRYL 264	Aliphatic trifunctional urethane acrylate	Good reactivity, good abrasion resistance and non yellowing.
EBECRYL 284	Aliphatic difunctional urethane acrylate	Good exterior durability, good toughness and resistance.
EBECRYL 505	Polyester resin	Improves adhesion on plastic substrates and low shrinkage.
EBECRYL 524	Polyester resin	Good adhesion to difficult substrates. Recommended for laminating adhesives.
EBECRYL 605	Standard bisphenol A epoxy acrylate	Fast cure, high gloss, excellent solvent resistance and low color.
EBECRYL 608	Standard bisphenol A epoxy acrylate	Fast cure, high gloss, excellent solvent resistance and low color.
EBECRYL 745	Acrylic oligomer	Very good adhesion to plastics and good weathering.
EBECRYL 841 <b>NEW</b>	Amine modified polyether acrylate	High reactivity and low viscosity.
EBECRYL 860	Epoxidised soya bean acrylate	Hot foil stamping.
EBECRYL 1608	Standard bisphenol A epoxy acrylate	Fast cure, high gloss, excellent solvent resistance. Low color and low irritancy.
EBECRYL 1710	Acrylic oligomer	Very good adhesion combined with good reactivity.
EBECRYL 3701	Modified bisphenol A epoxy acrylate	Flexible and good adhesion to plastics.
EBECRYL 3740	Standard bisphenol A epoxy acrylate	Fast cure, high gloss, excellent solvent resistance. Low color, low irritancy and good adhesion to Polar plastics.
EBECRYL 5129	Aliphatic hexafunctional urethane acrylate	Good scratch and abrasion resistance. More flexible than <b>EBECRYL 1290</b> .
EBECRYL 7100	Amine functional acrylate co-initiator	Highly efficient co-initiator and excellent adhesion to plastics. Nitrogen content: 3.5%. Can be used as a resin.
HDDA	Hexanediol diacrylate	High diluting power. Excellent adhesion and good weathering properties.
IRR 615 <b>NEW</b>	Modified polyol acrylate	Outstanding adhesion to plastic substrates, in particular uncoated polyolefins and low viscosity.
IRR 616 <b>NEW</b>	Modified polyol acrylate	Outstanding adhesion to plastic substrates, in particular uncoated polyolefins and low viscosity.
IRR 632 <b>NEW</b>	Polyester resin	Cost effective binder with good pigment wetting and good ink water balance.
IRR 641 <b>NEW</b>	Amine modified epoxy diacrylate	High reactivity and flexibility.
IRR 642 <b>NEW</b>	Tetrafunctional polyester acrylate	Cost effective, high reactivity, good solvent and scratch resistance properties.
IRR 649 <b>NEW</b>	Modified Bisphenol A epoxy acrylate	Low color, low viscosity. High surface hardness, excellent solvent resistance and high gloss.
OTA 480	Propoxylated glycerol triacrylate	Low viscosity and fast cure speed.
PETIA	Mixture of pentaerythritol tri- & tetraacrylate	Hard, good chemical resistance and adhesion.
TMPTA	Trimethylol propane triacrylate	High cure speed, chemical and abrasion resistance.
TPGDA	Tripropylene glycol diacrylate	Good cure speed and flexibility.
<b>Additives / Photoinitiators</b>		
EBECRYL 341 <b>NEW</b>	Silicone free slip agent	Silicone free slip additive for use in OPVs and allows overprintability.
EBECRYL 350	Silicone diacrylate	Copolymerisable, substrate wetting and slip additive.
EBECRYL 1360	Silicone hexaacrylate	Copolymerisable, substrate wetting and slip additive. Recommended for EB applications.
EBECRYL P37	Acrylated derivative of benzophenone	Low odor, excellent surface cure and good solubility.
EBECRYL P38	Acrylated derivative of benzophenone	Photoinitiator for low odor UV coatings. H-abstraction.
EBECRYL P115	Tertiary amine co-initiator	Highly efficient co-initiator. Nitrogen content: 4.9%
MODAFLOW™ 2100*	Acrylic resin	Silicone free defoaming agent with good leveling and low odor
MODAFLOW 9200	Silicone free levelling agent	Silicone free leveling agent with excellent compatibility

\* EBECRYL™ UV curable resins UV 固化树脂

\* MODAFLOW™ flow modifiers 流平助剂

Dilution 稀释组分	Reactivity 反应活性	Adhesion 附着力	Substrate wetting 基材润湿性	Solvent resistance 耐溶剂型	Flexibility 柔顺性	Yellowing 黄变性	Slip 平滑	Functionality 官能度	Mw g/mol 分子量 g/mol	Viscosity mPa.s (°C) 粘度 mPa.s (°C)	Density g/cm <sup>3</sup> 粘度 g/cm <sup>3</sup>	AV mgKOH/g 酸值 mgKOH/g	OHV mgKOH/g 羟值 mgKOH/g	Color Gardner 色度 Gardner	-C=C- meq/g
✓	●●	●●●	●●	●●●	●●	●●●	-	2	242	10 (25)	1.06	1	40	150A	8.3
✓	●●●	●●●	●●●	●●●	●●	●●●	-	4	571	160 (25)	1.15	0.5	60	2	7.0
✓	●●●●	●●	●●●	●●	●●●	●●	-	3	1000	3000 (25)	1.05	-	-	200A	-
✓	●●●●	●●	●●●	●●	●●●	●●	-	3	600	100 (25)	1.08	-	-	2	-
✓	●●●●	●●	●●●	●●●	●●●	●●	-	3	1000	500 (25)	1.11	-	-	2	-
✓	●	●●●●	●●	●	●●●	●●●●●	-	2	228	120 (25)	0.97	1	-	3	4.4
✓	●●	●●●	●●	●●●	●●	●●●	-	2	328	20 (25)	1.01	1	40	200A	6.1
✓	●●●	●●	●●●●	●●●	●●	●●●	-	3	428	80 (25)	1.09	1	25	200A	6.5
✓	●●	●●●●●	●●	●●	●●●●	●●	-	2	1500	3900 (60)	1.11	-	-	2	-
✓	●●●●●	●●	●●●	●●●●●	●	●●	-	6	1000	28500 (25)	1.22	-	-	2	-
15 HDDA	●●●●	●●●	●●●	●●●●	●●●	●●●●●	-	3	2000	45000 (25)	1.12	-	-	2	-
12 HDDA	●●●	●●●●	●●●	●●●	●●●	●●●●●	-	2	1200	2100 (60)	1.18	-	-	2	-
40 TPGDA	●	●●●	●●●●	●	●●●●	●	-	-	-	2000 (25)	1.22	30	-	1	-
30 HDDA	●	●●●●●	●●	●●	●●	●●	-	-	1000	60000 (25)	1.22	30	20	250A	-
25 TPGDA	●●●●●	●	●●	●●●●●	●●	●	-	2	500	7500 (25)	1.17	2	190	2	-
25 OTA480	●●●●●	●	●●	●●●●●	●●	●	-	2	500	25000 (25)	1.15	2	195	2	-
25 TPGDA / 25 HDDA	●●	●●●●●	●●●	●●	●●●	●●●●	-	-	-	20000 (25)	1.05	1	40	3	-
✓	●●●●	●●	●●●	●●●	●●●	●●	-	3.5	-	600 (25)	1.1	-	-	200A	-
✓	●	●	●●●	●	●●●●	●	-	2	1200	25000 (25)	1.03	15	-	10	-
15 OTA480	●●●●●	●	●●	●●●●●	●●	●	-	2	500	1000 (60)	1.17	2	205	2	-
60 HDDA	●●●	●●●●	●●●	●●●	●●	●●●●●	-	2	-	26000 (25)	1.07	-	-	1	-
✓	●●●	●●	●●●	●●●●	●●●	●	-	2	850	7000 (60)	1.14	5	-	6	-
✓	●●●●●	●●●●	●●●	●●●●●	●●	●	-	2	500	2500 (60)	1.14	-	-	2	-
✓	●●●●●	●●	●●	●●●●●	●●	●●●●●	-	6	800	700 (60)	1.18	-	-	2	-
✓	●●●●	●●●●	●●●	●●●	●●	-	●●●●	-	-	1000 (25)	1.10	-	-	4	-
✓	●●	●●●●	●●	●●●	●●	●●●●	-	2	226	10 (25)	1.03	1	15	40A	8.8
37 DPGDA	●●	●●●●●	●●●●	●●●	●●●	●●	-	2	1500	7000 (25)	1.10	1	-	2	-
58 TMPTA	●●●	●●●●	●●●●	●●●●	●●●	●●	-	3	1500	7000 (25)	1.10	1	-	2	-
35 OTA	●●●	●	●●●	●●●●	●●	●●	-	3	2300	60000 (25)	1.10	5	-	dark	-
8 HDDA	●●●●	●●●●	●●	●●●●	●●●	●●	-	2	1800	21000 (25)	1.15	-	-	2	-
✓	●●●	●●●	●●●●	●●●	●●	●●●	-	4	-	140 (25)	1.15	-	-	2	-
22 TMPEOTA	●●●●●	●	●●	●●●●●	●	●	-	2	-	15000 (25)	1.1	-	-	3	-
✓	●●●	●●	●●	●●●	●	●●●	-	3	480	90 (25)	1.08	1	60	60A	6.2
✓	●●●●	●●●●	●●●●	●●●●	●	●●●	-	-	298	1100 (25)	1.18	10	115	200A	11.1
✓	●●●●	●●●	●●	●●●	●	●●●●	-	3	296	115 (25)	1.11	1	30	50A	9.8
✓	●●	●●	●●	●●●	●●	●●●	-	2	300	15 (25)	1.05	1	40	50A	6.2
✓	-	●	●	●	-	-	●●●●●	-	-	Paste (25)	-	-	-	White	-
✓	-	●●●●●	●●●●●	●	-	-	●●●●	2	-	350 (25)	1.05	7	-	10	-
✓	-	●●●●●	●●●●●	●●	-	-	●●●●	6	-	2100 (25)	1.11	25	-	10	-
✓	-	-	-	-	-	-	-	-	-	solid	-	-	-	-	-
✓	-	●	●●●	●●●	-	-	●	-	-	20 (25)	0.99	-	-	2	-
✓	●	●●	●●●●●	●	-	-	●●	-	-	8500 (25)	-	-	-	Pale	-
✓	●	●●	●●●●●	●	-	-	●●	-	-	4000 (25)	-	-	-	Pale	-

重要性能描述	产品描述	产品
<b>稀释型丙烯酸酯/齐聚物</b>		
良好的固化速度和柔顺性	二丙二醇二丙烯酸酯	DPGDA
低收缩和高反应活性	聚醚四丙烯酸酯	EBECRYL 40
高反应活性, 氮含量: 1.5%	胺改性聚醚丙烯酸酯	EBECRYL 80
高反应活性兼具良好的降粘能力, 氮含量: 1.4%	胺改性聚醚丙烯酸酯	EBECRYL 81
高反应活性, 低粘度, 低残留气味, 无刺激性, 氮含量: 1.0%	胺改性聚醚丙烯酸酯	EBECRYL 83
低气味, 良好的柔顺性和附着力, 非刺激性	脂肪族单丙烯酸酯	EBECRYL 113 <span style="color: yellow;">新产品</span>
非刺激性, 低表面张力脂肪族二官能度丙烯酸酯	丙氧基化新戊二醇二丙烯酸酯	EBECRYL 145
较TMPTA具有更高的柔顺性, 高硬度, 光泽和固化速度	乙氧基三羟甲基丙烷三丙烯酸酯	EBECRYL 160
未稀释, 良好的柔顺性, 通用性好	芳香族二官能度聚氨酯丙烯酸酯	EBECRYL 210
快速固化, 高硬度和耐溶剂性	芳香族六官能度聚氨酯丙烯酸酯	EBECRYL 220
良好的反应活性, 良好的耐磨性和不黄变性	脂肪族三官能度聚氨酯丙烯酸酯	EBECRYL 264
良好的户外稳定性, 良好的强度和耐抗性	脂肪族二官能度聚氨酯丙烯酸酯	EBECRYL 284
增强了在塑料和金属基材上的附着力, 低收缩率	聚酯树脂	EBECRYL 505
对困难底材良好的附着力, 推荐用于粘合剂产品	聚酯树脂	EBECRYL 524
快速固化, 高光泽, 优异的耐溶剂性, 低色泽	标准双酚A环氧丙烯酸酯	EBECRYL 605
快速固化, 高光泽, 优异的耐溶剂性, 低色泽	标准双酚A环氧丙烯酸酯	EBECRYL 608
对塑料非常好的附着力, 良好的耐候性	丙烯酸酯齐聚物	EBECRYL 745
高反应活性, 低粘度	胺改性聚醚丙烯酸酯	EBECRYL 841 <span style="color: yellow;">新产品</span>
优异的高速胶印性能, 良好的颜料润湿性能	高分子量聚酯丙烯酸酯	EBECRYL 860
快速固化, 高光泽, 优异的耐溶剂性, 低色泽, 低刺激性	标准双酚A环氧丙烯酸酯	EBECRYL 1608
良好的附着力兼具优良的反应速度	丙烯酸酯齐聚物	EBECRYL 1710
柔顺性, 对塑料基材良好的附着力	改性双酚A环氧丙烯酸酯	EBECRYL 3701
快速固化, 高光泽, 优异的耐溶剂性, 低色泽, 低刺激性	标准双酚A环氧丙烯酸酯	EBECRYL 3740
良好的抗划伤性和耐磨性, 比 Ebecryl 1290具有较好的柔顺性	脂肪族六官能度聚氨酯丙烯酸酯	EBECRYL 5129
高效助引发剂, 对塑料基材出色的附着力, 氮含量: 3.5%, 可作为树脂使用	三级胺助引发剂	EBECRYL 7100
高稀释性, 出色的附着力, 良好的耐候性	己二醇二丙烯酸酯	HDDA
对塑料基材出色的附着力, 尤其适用于未经涂覆的聚烯烃基材, 低粘度	改性的多元醇丙烯酸酯	IRR 615 <span style="color: yellow;">新产品</span>
对塑料基材出色的附着力, 尤其适用于未经涂覆的聚烯烃基材, 低粘度	改性的多元醇丙烯酸酯	IRR 616 <span style="color: yellow;">新产品</span>
良好的颜料润湿性和水油平衡性能, 综合性能出色的连接料	聚酯丙烯酸酯	IRR 632 <span style="color: yellow;">新产品</span>
出色反应活性兼具出色柔顺性	胺改性环氧丙烯酸酯	IRR 641 <span style="color: yellow;">新产品</span>
高反应活性, 出色的耐溶剂性和高抗划伤性	四官能度聚酯丙烯酸酯	IRR 642 <span style="color: yellow;">新产品</span>
低色泽, 低粘度, 良好的耐溶剂性, 良好的表面硬度和高光泽	双酚A环氧丙烯酸酯	IRR 649 <span style="color: yellow;">新产品</span>
低粘度和快速固化	丙氧基甘油三丙烯酸酯	OTA 480
硬度好, 良好的耐化学品性和附着力	季戊四醇三丙烯酸酯混合物	PETIA
高固化速度和耐化学品性能及耐磨性能	三羟甲基丙烷三丙烯酸酯	TMPTA
良好的固化速度和柔顺性	三丙二醇二丙烯酸酯	TPGDA
<b>助剂/光引发剂</b>		
可用于印刷光油中的非硅平滑助剂, 可重涂	非硅类流平剂	EBECRYL 341 <span style="color: yellow;">新产品</span>
可共聚合, 基材润湿和平滑助剂	硅酮二丙烯酸酯	EBECRYL 350
可共聚合, 基材润湿和平滑助剂, 可用于EB固化体系	硅酮六丙烯酸酯	EBECRYL 1360
低气味, 出色的表面固化性能	二苯甲酮丙烯酸酯化衍生物	EBECRYL P37
用于低气味罩光清漆配方	二苯甲酮丙烯酸酯化衍生物	EBECRYL P38
高效助引发剂, 氮含量: 4.9%	三级胺助引发剂	EBECRYL P115
良好的流平性能兼具良好的消泡性能, 不含有机硅	丙烯酸酯树脂	MODAFLOW 2100
非硅流平剂, 出色的相容性	非硅类流平剂	MODAFLOW 9200

With the strong growth of the printing and packaging industry in the Asia Pacific region, the increased awareness on environmental issues and the increasingly severe requirements, the printing industry will need to evolve to successfully address the new challenges ahead. Considering the known benefits of and the continuous advancements and innovations in energy-curing technology and products, it comes as no surprise that the UV/EB curing technology is growing at a fast pace in the printing industry.

As a provider of innovative solutions to the global energy-curable graphics market, we're committed to consolidating our leadership position as preferred supplier. To fulfill our objective of delivering superior value to our customers in the Asia Pacific region, **Cytec Industries** is continuously introducing new products to be added to our existing broad range of outstanding energy-curable resins and additives designed for the graphics industry.

The product table in this brochure illustrates our **RADCURE™** product range for **UV/EB overprint varnishes** and provides general guidance on properties and technical parameters of specific selected grades to assist you to arrive at the right solution.

#### Abbreviations / 缩写

<b>Mw</b>	molecular weight	分子量
<b>AV</b>	acid value	酸值
<b>OHV</b>	hydroxyl value	羟值
●	low	低
●●	moderate	中等
●●●	good	良好
●●●●	very good	非常好
●●●●●	excellent	极好

**Viscosity 粘度比** Hoppler viscosity, expressed in mPa.s  
Hoppler粘度, 用mPa.s表示

**Dilution 稀释组分** Parts of diluent in 100 parts of product  
在100份产品中所占的比例

**-C=C-** Unsaturation content expressed in meq/g  
不饱和含量, 用meq/g表示

随着亚太地区印刷和包装工业的迅速成长, 人们对环境意识的日益增强, 和严苛要求的日益增多, 印刷工业需要不断地发展来成功面对未来的新挑战。考虑到众所周知的优点和能量固化技术和产品的不断进步和创新, 就不会对UV/EB固化技术在印刷工业中如此迅速发展感到奇怪。

作为全球能量固化印刷市场的创新方案的缔造者, 我们会继续巩固我们首选供应商的地位。为了实现为亚太地区客户提供出众价值的目标, **氰特工业**正不断研发新产品加入我们现有的广泛的出众的针对印刷市场的能量固化树脂和添加剂产品中。

这本产品目录中的表格列举了我们 **RADCURE™** 针对 **UV/EB 印刷罩光清漆** 的产品, 并且提供了产品属性综合的指导以及特殊选择规格的技术参数来帮助您正确实现您的方案。



Cytec world class resin manufacturing site in Shanghai, China  
氰特在中国上海的世界级水平的生产基地

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Covers coated with UV varnish  
封面涂有UV清漆

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