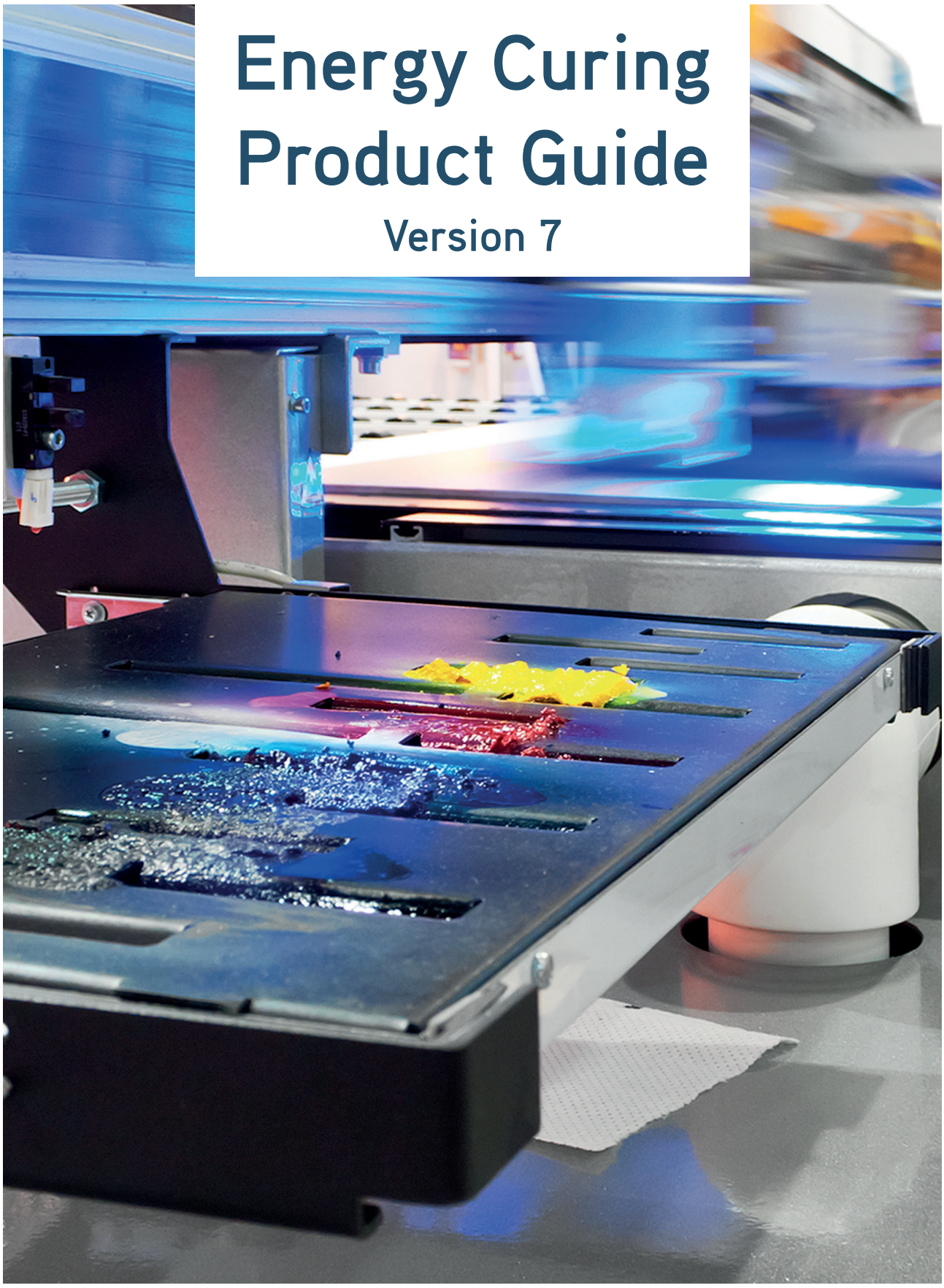
Energy Curing Product Guide

Version 7



IGM RESINS

We Enable the Transformation of Light for a Better Future.

ENERGY CURING

Product guide

ENERGY CURING RAW MATERIAL AND TECHNICAL SOLUTION PROVIDER

IGM Resins is the leading global provider of Energy Curing raw material solutions to a wide variety of industries such as graphic arts, industrial coatings, adhesives and 3D printing. The combination of our global presence, unique market-driven and customer-focused approach, technical and regulatory support and our comprehensive portfolio of products covering Photoinitiators, Energy Curing Resins and Additives is the cornerstone of our success.
We offer worldwide technical application support, product development and customized solutions.
IGM is 100% dedicated to the energy curing coatings industry, and we are investing to grow with it.
We are expanding our capabilities in R&D, product development and manufacturing to better serve you and partner with you in developing next generation photoinitiators and other UV materials.

WE ENABLE THE TRANSFORMATION OF LIGHT FOR A BETTER FUTURE

This product catalogue gives details of all the products currently offered to the Energy Curing industry by IGM Resins.

PURE LINE

Environmental protection is a key pillar of IGM Resins' sustainability strategy, which is critical in shaping a better future for generations to come. Select our Pureline™ products for a more sustainable world.

HOW TO GET MORE FROM US

Our network of offices and distribution centers globally are established in all major energy curing markets to offer customer-focused and efficient supply. Our customer service is world class.
Application and product development laboratories are available to provide customers with technical support and formulation advice.
Whatever your UV application, the IGM Resins technical service team is on hand to provide support with radcure formulation challenges. If we don't have the right product, we can work with you to develop one.

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	Chemical Identity	Cas No.	Molecular Weight | g/mol	Melting Point | °C	UV-absorption (lambda max) | nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure	Water-based Systems
POLYMERIC PHOTOINITIATORS FOR SENSITIVE APPLICATIONS												
Omnipol BP	Di-ester of carboxymethoxy-benzophenone and polytetramethyleneglycol 250 type II photoinitiator	515136-48-8	730	Liquid at room temperature	270, 325		•••	••	•••	••		•
Omnipol 2702	Polymeric benzophenone derivative type II photoinitiator	1246194-73-9	620	Liquid at room temperature	240, 280, 330	••	•••	••	•••	••		•
Omnipol TX	Di-ester of carboxymethoxy thioxanthone and polytetramethyleneglycol 250 type II photoinitiator	813452-37-8	790	Liquid at room temperature	245, 280, 390	•••	••	•	•	•••	•••	
Omnipol BL 728	Low viscosity blend based on Omnipol TX type II photoinitiator blend	74512-23-5		Liquid at room temperature	290, 311	•••	••	•	•	•••	•••	
Omnipol TP	Polymeric TPO-L	-		Liquid at room temperature	360, 395	••	•	••	••	••	•	
Omnipol 910	Piparazino based aminoalkylphenone type I photoinitiator	886463-10-1	1039	Liquid at room temperature	230, 325	••	••	•	••	•••	•••	
Omnipol 9210	Piparazino based aminoalkylphenone type I photoinitiator diluted in PPTTA	886463-10-1 + 51728-26-8	1032	Liquid at room temperature	240, 325	••	••	•	••	•••	•••	
MULTI FUNCTIONAL PHOTOINITIATOR FOR SENSITIVE APPLICATIONS												
Omnirad 819	Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	162881-26-7	418.5	127-133	237, 275, 380	•••	•	••	•••	•••	•••	•
Esacure 1001 M	Difunctional ketosulphone type II photointiator	272460-97-6	514.6	> 100	315	•••	•••	•••		•	••	•
Omnirad 127	2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one	474510-57-1	340.4	45-50	243, 332	••	•••	•••	•••	••	•	•
Esacure KIP 160	Difunctional alpha hydroxy ketone type I photoinitiator	71868-15-0	342.4	> 96		•••	•••	•••		•••		•
AMINE SYNERGISTS FOR SENSITIVE APPLICATIONS												
Omnipol ASA	Poly(ethylene glycol) bis(p-dimethylaminobenzoate)	71512-90-8	510	Liquid at room temperature	230, 325		•••	••	••	•••	•••	
Esacure A 198	Difunctional amine synergist	925246-00-0	413.5	90-96	315	•••	•••	•••	••	•••	•	

PHOTOINITIATORS - TYPE I

	Chemical Identity	Cas No.	Molecular Weight | g/mol	Melting Point | °C	UV-absorption (lambda max) | nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure	Water-based Systems
Omnirad 819	Bis(2,4,6-trimethylbenzoyl)phenylphosphine oxide	162881-26-7	418.5	127-133	237, 275, 380	•••	•	••	•••	•••	•••	•
Omnirad 2100	Blend of Omnirad 819 + Omnirad TPO-L			Liquid at room temperature	220, 275, 370	•••	•	•••	•••	•••	•••	•
Omnirad 2022	Blend of Omnirad 1173 + Omnirad TPO-L + Omnirad 819			Liquid at room temperature	245, 285 , 370	•••	•	•••	•••	•••	•••	•
Omnirad 819 DW	Omnirad 819 DW is a dispersion of 45% bis-acylphosphine oxide in water			Liquid at room temperature	237, 275, 380	•••	•	••	•••	•••	•••	•••
Omnirad TPO**	2,4,6-trimethylbenzoyl-diphenyl phosphine oxide	75980-60-8	348.4	91-94	275, 379	•••		•••	•••	••	•••	•
Omnirad TPO-L	Ethyl(2,4,6-trimethylbenzoyl)-phenyl phosphinate	84434-11-7	316.4	Liquid at room temperature	230, 275, 370	•••	•	••	•••	••	•••	••
Omnirad 4265	Omnirad TPO (50% wt) and Omnirad 1173 (50% wt)	75980-60-8 + 7473-98-5		Liquid at room temperature	239, 275, 379	•••	•••	•••	•••	••	•	••
Omnirad 403	Bis(2,6-dimethoxybenzoyl)-2,4,4-trimethylpentylphosphine oxide	145052-34-2	490.5	105-119	300, 350	•••	•	•	•••	•••	•••	•
Omnirad 1700	Omnirad 403 (25% wt) and Omnirad 1173 (75% wt)	145052-34-2 + 7473-98-5		Liquid at room temperature	244, 300, 350	•••	•	••	•••	•••	••	•
Omnirad 1870	Omnirad 403 (70% wt) and Omnirad 184 (30% wt)	145052-34-2 + 947-19-3		≥ 97	243, 300, 350	•••	••	••	•••	•••	••	•
Omnirad 1173	2-hydroxy-2-methyl-1-phenylpropanone	7473-98-5	164.2	Liquid at room temperature	244, 330	••	•••	•••	•••	••	•	•••
Omnirad 184*	1-hydroxycyclohexyl-phenyl ketone	947-19-3	204.3	44-50	243, 331	••	•••	•••	•••	••	•	••
Omnirad 127	2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one	474510-57-1	340.4	82-90	243, 332	••	•••	•••	•••	••	•	•
Omnirad 601	Difunctional alpha hydroxy ketone	71868-15-0	342.4	≥ 96	275	•••	•••	•••		•••		•
Omnirad 2959	1-[4-(2-hydroxyethoxyl)-phenyl]-2-hydroxy-methylpropanone	106797-53-9	224.3	86-90	274, 330	••	•••	•••	•••	••	•	•••
Omnirad 1000	Omnirad 1173 (80% wt) and Omnirad 184 (20% wt)	7473-98-5 + 947-19-3		Liquid at room temperature	280, 325	••	•••	•••	•••	•	•	••
Esacure ONE	Difunctional oligomeric alpha hydroxy ketone type I photoinitiator	163702-01-0	408.5	98-110	260	•••	•••	•••		••		••
Esacure KIP 150	Oligomeric alpha hydroxy ketone 100%	163702-01-0		Liquid at room temperature	260	•••	•••	•	•	•		•
Esacure KIP 100 F	Oligomeric alpha hydroxy ketone (70% wt) and 2-hydroxy-2-methylpropiophenone (30% wt)	163702-01-0 + 7473-98-5		Liquid at room temperature	260	•••	•••	•	•	•		•
Esacure KIP 75 LT	Oligomeric alpha hydroxy ketone (75% wt) and tripropylene glycol diacrylate (25% wt)	163702-01-0 + 42978-66-5		Liquid at room temperature	260	•••	•••	•	•	•		•
Omnirad 379	2-dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-butan-1-one	119344-86-4	380.5	88-93	233, 320	•••	••	•	•	•••	••	
Omnirad 389	2-Benzyl-2-dimethylamino-1-(4-piperidinylphenyl)- 1-butanone	119312-76-4	364.3	71-80	333	•••	••	•	•	•••	•••	

* Products available as Flakes version
** High purity and Electronic grade available

	Chemical Identity	Cas No.	Molecular Weight | g/mol	Melting Point | °C	UV-absorption (lambda max) | nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure	Water-based Systems
Omnirad 369	2-benzyl-2-(dimethylamino)-4'-morpholinobutyrophenone	119313-12-1	366.5	110-114	232, 323	•••	••	•	•	•••	••	
Omnirad 380	Bis(2,4,6-Trimethylbenzoyl)phenylphosphine oxide	162881-26-7	418.5	127-133	237	•••	•	••	•••	•••	•••	•
Omnirad 907	2-methyl-1-[4-(methylthio)phenyl]-2-morpholinopropan-1-one	71868-10-5	279.4	73-76	230, 303	•••	••	••	••	•••	••	
Omnirad 754	Blend of oxy-phenyl-acetic acid 2-[2-oxo-2-phenyl-acetoxy-ethoxy]-ethyl ester and oxy-phenyl-acetic acid 2-[2-hydroxy-ethoxy]-ethyl ester	-	-	Liquid at room temperature	260, 340	••	••	•••	•••			
Omnirad BDK	2,2-dimethoxy-2-phenylacetophenone	24650-42-8	256.3	64-67	252, 325	•••	•••			•••	•	

PHOTOINITIATORS - TYPE II

Esacure 3644	Ketocoumarin	Proprietary	-	68-71	325, 375	•••	•••	•••		•••	•••	
Omnirad DETX	2,4-diethylthioxanthone	82799-44-8	268.4	71-74	261, 385	•••	••			•••	•••	
Omnirad ITX	2-isopropyl thioxanthone	5495-84-1	254.3	70-76	255, 384	•••	••			•••	•••	
Omnirad MBF	Methylbenzoylformate	15206-55-0	164.2	Liquid at room temperature	255, 325		•••	•••	••	•		•••
Omnirad EMK	4,4'bis(diethylamino) benzophenone	90-93-7	324.5	93-96	324,5	•••	•••			•••	•••	••
Omnirad BP Flakes	Benzophenone	119-61-9	182.2	45-49	251, 333	•	•••	••	••	••		••
Omnirad 81	Blend of Benzophenone derivatives	119-61-9 + 134-84-9	-	Liquid at room temperature	255, 330	••	•••	••	••	••		••
Omnirad 4MBZ Flakes	4-methyl benzophenone	134-84-9	196.3	54-58	245, 330	••	•••	••	••	••		••
Omnirad 4PBZ	4-phenyl benzophenone	2128-93-0	258.3	99-103	285	••	•••	••	••	••		••
Omnirad OMBB	Methyl-o-benzoylbenzoate	606-28-0	240.3	48-54	253, 282		•••	••	••	••		••
Omnirad 991	2-ethylhexyl 2-([1,1'-biphenyl]-4-ylcarbonyl)benzoate	75005-95-7	414.5	Liquid at room temperature	290	••	•••	•••	••	••		••
Omnirad BMS	4-(4methylphenylthio)benzophenone	83846-85-9	304.4	75-85	252, 325	••	•••	•••	••	••		••
Esacure 563	Aromatic glyoxylate photoinitiator	2842046-85-7	-	~85	365, 395	••	•••	••	•••	•••	•••	

	Chemical Identity	Cas No.	Molecular Weight | g/mol	Melting Point | °C	UV-absorption (lambda max) | nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure	Water-based Systems
Esacure TZM	Liquid mixture of benzophenone (50%) and 4-methylbenzophenone (50%)	119-61-9 + 134-84-9		Liquid at room temperature	320, 260	•••	•••	•••	••	••		••
Esacure TZT	Liquid eutectic mixture of 2-4-6 trimethylbenzophenone and 4 methylbenzophenone	954-16-5 + 134-84-9		Liquid at room temperature	250, 330	••	•••	•••	••	••		••
Omnirad 500	Omnirad BP (50% wt) and Omnirad 184 (50% wt)	119-61-9 + 947-19-3		Liquid at room temperature	248, 338	••	••	••	••	•		•••
Omnirad 540	Blend	-		Liquid at room temperature	245	••	•••	•••	••	•		•

AMINE SYNERGISTS

Omnipol ASA	Poly(ethylene glycol) bis(p-dimethylaminobenzoate)	71512-90-8	510	Liquid at room temperature	230, 325		•••	••	••	•••	•••	
Esacure A 198	Difunctional amine synergist	925246-00-0	413.5	90-96	315	•••	•••	•••	••	•••	•	
Omnirad EDB	Ethyl-4-(dimethylamino) benzoate	10287-53-3	193.2	62-68	228, 308	•••	••	••	••			
Omnirad EHA	2-ethylhexyl-4-dimethylaminobenzoate	21245-02-3	277.4	Liquid at room temperature	312	•••	••	••	••			

	Chemical Identity	Cas No.	Molecular Weight | g/mol	Melting Point | °C	UV-absorption (lambda max) | nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	Visible Light Curing	LED Cure	Water-based Systems
ELECTRONICS													
Omnirad 1312	5-(4-isopropylphenylthio)-1,2-indandione,2-O-acetyl) oxime		353.4	94-100	355	•••	••					••	
Omnirad 1314	1,2- Octandione, 1-[4-(phenylthio)phenyl]-,2-o-benzoyloxime)			42-45	330								
Omnirad 1315	1[1-[9-ethyl-6-(2-methylbenzoyl) carbazol-3-yl]ethylideneamino] acetate	478556-66-0	412.49	120-130	330								
Omnirad 1316	Oxime ester			100-120	330								
Omnirad 379 EG	2-dimethylamino-2-(4-methyl-benzyl)-1-(4-morpholin-4-yl-phenyl)-butan-1-one	119344-86-4	380.5	88-93	233, 320	•••	••	•	•	•••	••		
Omnirad 369 E	2-benzyl-2-(dimethylamino)-4'-morpholinobutyrophenone	119313-12-1	366.5	110-114	232, 323	•••	••	•	•	•••	••		
Omnirad TPO-S	2,4,6-Trimethylbenzoyl-diphenyl phosphine oxide	75980-60-8	348.4	91 - 94	275, 379	•••		•••	•••	••	•••		•
Omnirad 784	Bis (cyclopentadienyl) bis [2,6-difluoro-3-(1-pyrryl)phenyl titanium	125051-32-3	534.4	165-170	398, 470	•••		•••	•••	•••	•••	•••	

MONOFUNCTIONAL MONOMERS

Chemical Identity		Cas No.	Functionality	Typical Viscosity | mPa.s at 25 °C	Colour | APHA max	Tg | °C	Surface Tension 25°C | m n/m	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
PureOmer 4012	Isobornyl acrylate (IBOA)	5888-33-5	1	10	50	88	32	Solvency, adhesion, good flexibility, thermoforming. Bio-based Content (ASTM D6866-21) : 78 %	••	•	••	••	•••	•
Photomer 4034	Caprolactone modified version of HEA	110489-05-9	1	35*	100	-52		Enhanced flexibility, improved chemical resistance and superior hydrolytic stability	••	••	•••		•••	
Photomer 4035 (LT)	Phenoxyethyl acrylate (PEA)	48145-04-6	1	10	60	5	38	Adhesion, coating hardness, high MW resin compatibilizer	••		•••		•••	•
Photomer 4141	Cyclic trimethylolpropane formal acrylate (CTFA)	66492-51-1	1	15	100	40	36	Adhesion, coating hardness, chemical resistance	••	••	••	•••	•••	
Photomer 4141 Plus	Cyclic trimethylolpropane formal acrylate (CTFA)	66492-51-1	1	15	100	40	36	Adhesion, coating hardness, chemical resistance, TMPTA Content < 0,3%	••	••	••	•••	•••	
Photomer 4142	Tetrahydrofurfuryl acrylate (THFA)	2399-48-6	1	8	80	-20	35	Adhesion, chemical resistance, good weatherability, high solvency		••		••	•••	
Photomer 4184	2-[[butylamino)carbonyl]oxy]ethyl acrylate	63225-53-6	1	35	200	-3	35	Flexibility, adhesion, high elongation	•		•••		•••	
Photomer 4211	2-(2-ethoxyethoxy) ethyl acrylate (EOEOEA)	7328-17-8	1	6	60	-53	30	Adhesion, solvency, high flexibility	•		•••	•••	••	
Photomer 4808	Octyl decyl acrylate (ODA)	2499-59-4 + 2156-96-6	1	6	60	-53	27	Hydrophobic, good wetting properties, good flexibility, good adhesion	•		••	••	••	•
Photomer 4810	Isodecyl acrylate (IDA)	1330-61-6	1	8	100	-60	29	Flexibility, hydrophobic, pigment wetting, substrate wetting	•		•••	••		••
PureOmer 4812	Lauryl acrylate (LA)	2156-97-0	1	7	200	-28	30	Flexibility, hydrophobic, good adhesion, low shrinkage, Bio-based Content (ASTM D6866-21) : 81 %	•		•••	••	••	

DI-FUNCTIONAL MONOMERS

Photomer 4017 (LT)	Hexanediol diacrylate (HDDA)	13048-33-4	2	8	60	43	35	Adhesion, chemical resistance, high solvency and cutting power	•••	•••	•	•••	•••	••
Photomer 4028	Bisphenol-A [4 EO] diacrylate	64401-02-1	2	1000	150	60	45	Gloss, low shrinkage, low skin irritation, litho additive	••	••		••	••	•••
Photomer 4050	Polyethyleneglycol 200 diacrylate (PEG200DA)	26570-48-9	2	20	70	8	39	Flexibility, flow and leveling, water dispersible	••	•	••	••	••	
Photomer 4054	Polyethyleneglycol 400 diacrylate (PEG400DA)	26570-48-9	2	50	100	3	40	Flexibility, water dispersible, low volatility	•	•	••	••	••	
Photomer 4056	Polyethyleneglycol 600 diacrylate (PEG600DA)	26570-48-9	2	100	100	-42	41	Flexibility, water dispersible, low volatility	•	•	••	••	••	
Photomer 4061 (LT)	Tripropyleneglycol diacrylate (TPGDA)	42978-66-5	2	14	100	64	32	Versatile, good flexibility and high reactivity	••	••	•	••	••	•
Photomer 4071	3 methyl-1.5-pentanediol diacrylate (MPDDA)	64194-22-5	2	8.5	120	50	33	Low odour, adhesion, high solvency and cutting power	•••	•••	•	•••	•••	••
Photomer 4120 LT	Neopentylglycol diacrylate (NPGDA)	2223-82-7	2	10	50		32	Flow and leveling, low shrinkage, low tension surface	•••	•••	•	•••	•••	•

Regional portfolio differences might apply
* At 40°C

	Chemical Identity	Cas No.	Functionality	Typical Viscosity | mPa.s at 25 °C	Colour | APHA max	Tg | °C	Surface Tension 25°C | m n/m	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
Photomer 4127 (LT)	Neopentylglycol [PO] diacrylate (NPGPODA)	84170-74-1	2	15	80	19	32	Pigment wetting, flow and leveling, low shrinkage, low tension surface	••		••	••	•	••
Photomer 4226 (LT)	Dipropyleneglycol diacrylate (DPGDA)	57472-68-1	2	10	60	96	33	Pigment wetting, high reactivity, high solvency and cutting power	••	••	•	••	••	•
Photomer 4361	Hexanediol [2 EO] diacrylate (HD2EODA)	84170-27-4 + 13048-33-4	2	15	250		38	Pigment wetting, flow and leveling	••	••	•	••	•••	••
TRI- AND HIGHER FUNCTIONAL MONOMERS														
Photomer 4006 (LT)	Trimethylolpropane triacrylate (TMPTA)	15625-89-5	3	100	50	62	37	High reactivity, coating hardness, chemical resistance	•••	•••	•	•••	••	•
PureOmer 4094 (LT)	Glyceryl [4 PO] triacrylate (GPTA)	52408-84-1	3	85	100	33	33	Pigment wetting, flexibility, impact resistance Bio-Based Content (ASTM D6866-21) : 14 %	•••	••	••	••	•	•••
Photomer 4149	Trimethylolpropane [3 EO] triacrylate (TMP3EOTA)	28961-43-5	3	63	50	37	38	High reactivity, coating hardness, tensile strength	•••	••	••	•••	••	•••
Photomer 4154 (Plus)	Trimethylolpropane [4 EO] triacrylate (TMP4EOTA)	28961-43-5	3	67	80		37	High reactivity, coating hardness, tensile strength, low TMPTA content	•••	••	••	•••	••	•••
Photomer 4157	Trimethylolpropane [9 EO] triacrylate (TMP9EOTA)	28961-43-5	3	105	100	-12	39	Flexibility, impact resistance, abrasion resistance, water dispersible	••	••	•••	•••	••	•••
Photomer 4158	Trimethylolpropane [15 EO] triacrylate (TMP15EOTA)	28961-43-5	3	170	150	-32	39	Flexibility, impact resistance, abrasion resistance, water dispersible	••	••	•••	•••	••	•••
Photomer 4172	Pentaerythritol [5 EO] tetraacrylate (PPTTA)	51728-26-8	4	160	100	36	38	High reactivity, dispersive properties, flexibility, high purity and low solvent content	•••	•••	•	••	••	••
Photomer 4176 (LT)	Pentaerythritol [5 EO] tetraacrylate (PPTTA)	51728-26-8	4	150	60	36	38	High reactivity, dispersive properties, flexibility, high purity and low solvent content	•••	•••	•	••	••	••
Photomer 4306	Ditrimethylolpropane tetra-acrylate (DiTMPTA)	94108-97-1 / 1393932-71-2	4	550	100	96	35	High reactivity	•••		•	••	•	••
Photomer 4307	Ditrimethylolpropane tetra-acrylate (DiTMPTA)	94108-97-1 / 1393932-71-2	4	650	300		35	High reactivity	•••		•	••	•	••
Photomer 4308	Ditrimethylolpropane tetra-acrylate (DiTMPTA)	1393932-71-2	4	1000			35	High reactivity, high cross-linking density	•••		•	••	•	••
Photomer 4335	Pentaerythritol tri and tetraacrylate (PETIA)	1245638-61-2	3.5	650	100	100	41	High reactivity, low viscosity	•••		•	••	•••	•
Photomer 4356	Tris (2-hydroxy ethyl) Isocyanurate triacrylate (THEICTA)	40220-08-4	3	wax	100	240	48	High Tg, good heat resistance	•••	•••	•	•	••	
Photomer 4357	Polyester acrylate resin modified by THEIC	-	3	3000	200	200		Low viscosity, high reactivity, high cross linking density	•••	•••	•	•	••	•
Photomer 4399	Dipentaerythritol Penta/Hexaacrylate (DPHA)	1384855-91-7	6	13000	60		42	High reactivity, hardness, abrasion and scratch resistant	•••	•••	•	••	••	•••
Photomer 4600	Dipentaerythritol Penta/Hexaacrylate (DPHA)	1384855-91-7	5	6000	50		41	High reactivity, hardness, abrasion and scratch resistant	•••	•••	•	••	••	•••
Photomer 4620	Ethoxylated (20EO) DPHA	104634-06-2	5	375	200	21		High reactivity, low viscosity, flexibility	•••	•••	•••	••	••	•••
Photomer 4666	Dipentaerythritol Penta/Hexaacrylate (DPHA)	1384855-91-7	5	5500	100	94	42	High reactivity, hardness and scratch resistant	•••	•••	•	••	••	•••
Photomer 4669	Dipentaerythritol Penta/Hexaacrylate (DPHA)	1384855-91-7	5	5500	100			High reactivity, hardness and scratch resistant	•••	•••	•	••	••	•••

Regional portfolio differences might apply

EPOXY ACRYLATES

Chemical Identity		Functionality	Typical Viscosity | mPa.s at T °C	T | °C	Colour | Gardner max	Tensile Strength | MPa	Elongation | %	Tg | °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
PureOmer 3005*	Acrylated epoxy soy oil (ESBOA)	2	20000	25	7	1150 psi	16	8	Flexibility, excellent pigment wetting. Bio-based Content (ASTM D6866-21) : 84 %	•	•	••	••	•	•••
Photomer 3016 (LT)	Bisphenol A epoxy diacrylate	2	5500	60	1			60	Gloss, chemical resistance, coating hardness	••	•••	•	•	•	••
Photomer 3016-20G	Bisphenol A epoxy diacrylate diluted with 20% GPTA	2	75000	25	1				Gloss, chemical resistance, improved flexibility	••	•••	•	•	•	••
Photomer 3016-20H (LT)	Bisphenol A epoxy diacrylate diluted with 20% HDDA	2	8000	25	1				Gloss, chemical resistance	••	••	•	•	••	••
Photomer 3016-20R (LT)	Bisphenol A epoxy diacrylate diluted with 20% TPGDA	2	23000	25	1		2	45	Gloss, chemical resistance, improved flexibility	••	••	••	•	•	••
Photomer 3016-20T (LT)	Bisphenol A epoxy diacrylate diluted with 20% TMPTA	2	50000	25	1			38	Cure speed, chemical resistance, coating hardness	•••	•••	•	•	•	••
Photomer 3016-25D (LT)	Bisphenol A epoxy diacrylate diluted with 25% DPGA	2	10000	25	1				Gloss, chemical resistance, improved flexibility	•••	•••	•	•	•	••
Photomer 3016-25G	Bisphenol A epoxy diacrylate diluted with 25% GPTA	2	40000	25	2				Gloss, chemical resistance, improved flexibility	•••	•••	•	•	•	••
Photomer 3016-25R (LT)	Bisphenol A epoxy diacrylate diluted with 25% TPGDA	2	15000	25	1	7800 psi	5	45	Gloss, chemical resistance, improved flexibility	••	••	••	•	•	••
Photomer 3016-25T (LT)	Bisphenol A epoxy diacrylate diluted with 25% TMPTA	2	45000	25	1				Gloss, chemical resistance, improved flexibility	•••	•••	•	•	••	••
Photomer 3016-40G	Bisphenol A epoxy diacrylate diluted with 40% GPTA	2	1700	40	1				Gloss, chemical resistance, improved flexibility	•••	•••	•	•	••	••
Photomer 3016-40R	Bisphenol A epoxy diacrylate diluted with 40% TPGDA	2	2000	25	1			45	Gloss, chemical resistance, improved flexibility	••	••	••	•	•	••
Photomer 3016-40T	Bisphenol A epoxy diacrylate diluted with 40% TMPTA	2	7500	25	1			53	Chemical resistance, cure speed	•••	•••	•	•	••	••
Photomer 3016-50W	Bisphenol A epoxy diacrylate diluted with 50% TMP(EO)TA	3	2400	25	1				Moderate viscosity, fast cure spee, TMPTA free	•••	•••	•	•	••	••
PureOmer 3026 (LT)	Epoxy diacrylate	2	6000	60	1	91	3	100	High reactivity, low odor, chemical resistance, improved flexibility Bio-based Content (ASTM D6866-21) : 21 %	••	•••	•	•	•	••
PureOmer 3026-20G (LT)	Epoxy diacrylate diluted with 20% GPTA	2	85000	25	1				High reactivity, low odor, chemical resistance, improved flexibility Bio-based Content (ASTM D6866-21) : 19,6 %	•••	•••	•	•	•	••
PureOmer 3026-40G	Epoxy diacrylate diluted with 40% GPTA	2	9000	25	1				High reactivity, low odor, chemical resistance, improved flexibility Bio-based Content (ASTM D6866-21) : 18,2 %	•••	•••	•	•	•	••
Photomer 3701*	Cresol novolac epoxy acrylate diluted in 40% TMPTA	3	10000	25	5			67	Chemical resistance, heat resistance, surface hardness, high reactivity	•••	•••	•	•	•	•

*BPA Free

POLYESTER ACRYLATES

Chemical Identity		Functionality	Typical Viscosity | mPa.s at T °C	T | °C	Colour | Gardner max	Tensile Strength | MPa	Elongation | %	Tg | °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
Photomer 5010	Matting resin	2	Thixotropic Gel	25	-	-	-	-	Self-matting, low gloss	•••	••	••	•	•••	•••
Photomer 5419	Tetrafunctional Polyester Acrylate	4	400	25	2	6	10	12	Good adhesion to metal substrate, pigment wetting, scruff resistance	•••	••	••		•••	•••
Photomer 5425	Polyester Acrylate	3	30000	25	5	18	19	24	Good flexibility and high abrasion resistance	•••	•••	•••			•••
Photomer 5429	Polyester tetraacrylate	4	400	25	2	19	7	41	Tensile strength, cure speed, adhesion, low viscosity	••	••	••		•••	•••
PureOmer 5433	Polyester tetraacrylate	4	4500	60	10	40	10	85	Pigment wetting, litho properties, abrasion resistance, toughness Bio-based Content (ASTM D6866-21) : 47 %	••	•	•••			•••
Photomer 5439	Polyester Acrylate tetrafunctional	4	275	25	2	31	8	46	Fast curing rapidly, good adhesion particularly to metal substrates, good pigment wetting	•••	•	••		•••	•••
PureOmer 5437	Polyester tetraacrylate	4	9500	25	5	1	6	19	Excellent pigment wetting, good adhesion, scratch resistance, high gloss Bio-based Content (ASTM D6866-21) : 14 %	••	••	••		•••	•••
Photomer 5442	Polyester acrylate hexaacrylate	6	9500	25	5	18	1	56	Fast cure, litho properties, very good pigment wetting, good flow ability	•••	••	•••	••		•••
PureOmer 5443	Polyester hexaacrylate	6	32500	25		17	3	46	High reactivity, PETA and PETIA free, good litho performance Bio-based Content (ASTM D6866-21) : 46 %	•••	•••	••	•	•	•••
PureOmer 5450	Fatty acid modified polyester hexaacrylate	6	9500	25	15	na	na	49	High reactivity, litho properties, pigment wetting Bio-based Content (ASTM D6866-21) : 40 %	•••	••	••	•		•••
Photomer 9145	Unsaturated polyester oligomer diluted in DPGDA	2	11000	25	4	11	6	37	Adhesion, pigment wetting of extender	•	•	•••		•••	•••

POLYETHER ACRYLATES

PureOmer 5662	Amine modified polyether acrylate	4	3000	25	1				Adhesion, flexibility, coating hardness Bio-based Content (ASTM D6866-21) : 14 %	•••	••	•••	••	••	••
Photomer 5930	Amine modified polyether acrylate	4	500	25	2				Pigment wetting, high reactivity, chemical resistance, oxygen inhibitor	•••	••	••	••	••	••

ALIPHATIC URETHANE ACRYLATES

Chemical Identity		Functionality	Typical Viscosity | mPa.s at T °C	T | °C	Colour | Gardner max	Tensile Strength | MPa	Elongation | %	Tg | °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
Photomer 4184 (U)	2-[[butylamino)carbonyl]oxy] ethyl acrylate	1	35	25				-3	Flexibility, adhesion, high elongation	•		••		•••	
Photomer 6008	Aliphatic urethane triacrylate	3	16000	60	1	76	6	47	Coating hardness, tensile strength, chemical resistance, non-yellowing	••	•••	••	•••	•	
Photomer 6010	Aliphatic urethane diacrylate	2	5800	60	1	12	30	-7	Good weatherability, non-yellowing, thermoforming	••	••	•••	••	•	••
Photomer 6019	Aliphatic urethane triacrylate	3	3250	60	1	79	4	51	Coating hardness, tensile strength, adhesion, non-yellowing	••	•••	••	•••	••	
Photomer 6024	Aliphatic urethane diacrylate	2	45000	25			8	-51	Good flexibility, yellowing resistance and good UV/EB cure reactivity	••	•	•••	•••	•••	
Photomer 6184	Aliphatic urethane triacrylate	3	58000	25	1	5400 psi	7	53	Ease of handling, coating hardness, tensile strength, temperature resistant, non-yellowing	••	•••	••	•••	•	
Photomer 6210	Aliphatic urethane diacrylate	2	12000	25	1	20	40	30	Ease of handling, scratch resistance, flexibility, impact resistance, adhesion, non-yellowing	••	••	•••	•••	•••	
Photomer 6215	Aliphatic urethane diacrylate	2	20000	60	2	12	82	44	Mechanical resistance, flexibility, non-yellowing	••	••	•••	••	••	
Photomer 6230	Aliphatic urethane diacrylate	2	3500	60	1	17	7	49	Abrasion resistance, impact resistance, low odour, adhesion, non-yellowing	••	••	•••	•••	•••	
Photomer 6630	Aliphatic urethane diacrylate	2	65000	25	2		29	-27	Good toughness, flexibility, non-yellowing	••	••	•••	••	•	
Photomer 6631 ◊	Aliphatic urethane hexaacrylate	6	30000	25	2				Coating hardness, good scratch and abrasion resistance, high reactivity	•••	•••	•		•	
Photomer 6633	Aliphatic urethane hexaacrylate	6	10500	25	2				low color, good reactivity, resistance to yellowing, and good adhesive properties	•••	••	••	•••	•••	
Photomer 6642	Aliphatic urethane triacrylate	3	50000	25	2				Fast cure, good flexibility, hardness	••	••	••	••		
Photomer 6643	Aliphatic urethane diacrylate	2	50000	60	2	384 psi	1	-40	High elongation, excellent flexibility, good abrasion resistance, adhesion	•	•••	•••	••	••	
Photomer 6644	Aliphatic urethane diacrylate	2	20000	25	2	284 psi	3	-37	High elongation, excellent flexibility, adhesion	•	••	•••	•••	•••	
Photomer 6645	Aliphatic urethane diacrylate	2	35000	25	1	994 psi	8	-39	Very high elongation, excellent flexibility, good abrasion resistance, adhesion	•	••	•••	•••	•••	
Photomer 6648 ◊	Aliphatic urethane tetraacrylate	4	8000	25	150 Apha				Tin free, good mechanical and chemical resistance, good abrasion resistance in combination with high flexibility	•••	•••	•••		••	
Photomer 6692 ◊	Aliphatic urethane hexaacrylate	6	5500	25	2			47	Petia free, tin free, Excellent abrasion resistance, good hardness, good chemical and water resistant	•••	••	••	•••	•••	
Photomer 6710	Aliphatic urethane diacrylate	2	7500	25	1	17	45	26	Good mechanical properties and flexibility, good stability	••	••	•••	•••	•••	
Photomer 6718 ◊	Aliphatic Urethane triacrylate	3	16000	60	1	76	6	98	Tin free, fast cure speed, high temperature stability, superior solvent resistance	••	•••	••	•••	•	
Photomer 6721	Aliphatic urethane diacrylate	2	7500	25	1	2300 psi	45	23	Good mechanical properties and flexibility, good stability	••	••	•••	•••	•••	

◊Tin Free

	Chemical Identity	Functionality	Typical Viscosity | mPa.s at T °C	T | °C	Colour | Gardner max	Tensile Strength | MPa	Elongation | %	Tg | °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
Photomer 6891	Aliphatic urethane diacrylate	2	8000	25	1	18	6	28	Flexibility, impact resistance, adhesion, non-yellowing	••	••	•••	•••	•••	
Photomer 6892	Aliphatic urethane triacrylate	3	29500	25	1	6	5	15	Adhesion, chemical resistance, flexibility, scratch resistance, non-yellowing	••	••	•••	••	•••	

AROMATIC URETHANE ACRYLATES

Photomer 6577	Aromatic urethane 10 acrylate	10	190000	25	2			45	Outstanding solvent and chemical resistance, excellent surface hardness and abrasion resistance and has a high reactivity	•••	•••	•			
Photomer 6578 ◊	Aromatic urethane tetra acrylate	4	6000	23	300 Apha			40	Tin free, low viscosity, good abrasion and scratch resistance	••	••	••			
Photomer 6579	Aromatic urethane diacrylate	2	7500	25	2			10	Flexibility, abrasion resistance	••	•	•••	•	••	
Photomer 6720	Aromatic urethane hexaacrylate	6	28500	25	2			49	Fast cure, impact strength, hardness, abrasion resistance	•••	••	•	•	•	

	Chemical Identity	Functionality	Typical Viscosity | mPa.s at 25 °C	Colour | Gardner max	Acid Value | mg KOH/g max	Tg | °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
Photomer 4173	Acid functional acrylate	1	4000	1	210		Adhesion, coating hardness, chemical resistance	•	•••			•••	
Photomer 4703	Acid functional acrylate	1	190	2	290		Adhesion, low viscosity, chemical resistance	•				•••	
Photomer 5028	Chlorinated polyester 40% of GPTA	3	95000	3	25	53	Adhesion promoter	••		••	•	•••	••
Photomer 5042	Chlorinated polyester 40% of TMPTA	3	125000	3	20		Adhesion promoter	••		••	•	•••	
PureOmer 5437	Polyester tetraacrylate	4	9500	5	15		Excellent pigment wetting, good adhesion, scratch resistant, high gloss Bio-based Content (ASTM D6866-21) : 14 %	••	••	••		•••	•••
Photomer 9502	Acrylic resin diluted in TPGDA and HDDA	2	17500		1	15	Adhesion promoter	•	•	•••		•••	

◊Tin Free

METHACRYLATES

	Chemical Identity	Cas No.	Functionality	Typical Viscosity | mPa.s at 25 °C	Colour | APHA max	Acid Value | mg koh/g max	Tg | °C	Surface Tension 25°C | m n/m	Product Attributes	Reactivity	Hardness	Flexibility	Adhesion
Photomer 2006	Trimethylolpropane trimethacrylate (TMPTMA)	3290-92-4	3	43	70	0.1	27	32	Chemical and impact resistance, hardness	•••	••	•	•••
Photomer 2007	Trimethylolpropane trimethacrylate (TMPTMA)	3290-92-4	3	43	100	0.2		32	Chemical and impact resistance, hardness	•••	••	•	•••
PureOmer 2012	Isobornyl methacrylate (IBOMA)	7534-94-3	1	6	50	0.5	150	31	Adhesion, flexibility, low shrinkage, abrasion resistance, high Tg (150) Bio-based Content (ASTM D6866-21) : 72 %	•	•	••	•••
Photomer 2050	Polyethyleneglycol 200 di- methacrylate (PEG200DMA)	25852-47-5	2	14	60	0.5		35	Heat resistance, chemical resistance, flexibility	•	•	••	•
Photomer 2317	Hydroxypropyl methacrylate (HPMA)	213-090-3	1		30	1.5			Adhesion to especially metal and plastic, hydrophilic	•	•	••	•••
Photomer 2318	Hydroxyethyl Methacrylate (HEMA)	868-77-9	1		30	0.3	55		Soluble in water, raw material for polymer synthesis	•			••
Photomer 2812	Lauryl methacrylate (LMA)	142-90-5	1	6	100	0.1	-65	28.9	Low shrinkage, good flexibility, hydrophobic, good weather resistance	•	••	••	••

AMINE ACRYLATES

	Chemical Identity	Functionality	Typical Viscosity | mPa.s at 25 °C	Colour | Gardner max	Product Attributes	Reactivity	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
Photomer 4068	Acrylated amine synergist	2.5	125		Cure speed, high reactivity, chemical resistance, oxygen inhibitor	•••	•	•	•	
Photomer 4250	Acrylated amine synergist	2.5	350	6	Cure speed, high reactivity	•••	•		••	•
Photomer 4771	Acrylated amine synergist	2	700	3	Cure speed, non-yellowing, low viscosity	•••	•		•••	•
Photomer 4775	Acrylated amine synergist	2	3200	3	Cure speed, non-yellowing, oxygen inhibitor	•••	•		•••	•
Photomer 4780	Acrylated amine synergist	2	1150	2	Cure speed, non-yellowing, low viscosity	•••	•		•••	•
Photomer 4967	Acrylated amine synergist	1	20	2	Cure speed, high reactivity, chemical resistance, oxygen inhibitor	•••	•	•	•	
Photomer 5006	Acrylated amine synergist	1	73	2	Cure speed, high reactivity, chemical resistance, oxygen inhibitor	•••	•	•	•	

SPECIALTIES

	Chemical Identity	Cas No.	Melting Point | °C	Appearance	Product Attributes
Omnimer ACMO	Vinyl monomer; acryloymorpholine	5117-12-4	Liquid at room temperature	Colourless or pale yellow clear liquid	Provides as a co-monomer flexibility, low shrinkage and heat resistance
Omnimer VCL	Vinyl monomer; 1-vinylhexahydro-2H-azepin-2-one (NVC)	2235-00-9	32-36	Light yellow crystalline solid	Provides as a co-monomer flexibility, low shrinkage, adhesion, pigment wetting and hydrophobicity

CATIONIC PHOTOINITIATORS

	Chemical Identity	Cas No.	Melting Point	°C	UV-absorption (lambda max)	nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure
Omnicat 250	75% solution of Iodonium, (4-methylphenyl)[4-(2-methylpropyl)phenyl]-, hexafluorophosphate(1-) in propylene carbonate	344562-80-7 + 108-32-7	Liquid at room temperature		240		•••	••	••	•••	•••	
Omnicat 320	Mixed triarylsulphonium hexaantimonate salts in 50% propylene carbonate	159120-95-3 + 108-32-7	Liquid at room temperature		245, 312		••	••	••	•••		
Omnicat 432	Mixed triarylsulfonium hexafluorophosphate salts (45%) in propylene carbonate (55%)	68156-13-8 + 74227-35-3 + 108-32-7	Liquid at room temperature		210, 300		••	••	•••	•••	•••	

SENSITISERS AND PHOTO ACID GENERATORS

	Chemical Identity	Cas No.	Melting Point	°C	UV-absorption (lambda max)	nm	Through Cure	Surface Cure	Clear Systems	White Systems	Pigmented Systems	LED Cure
Omnirad ITX	2-isopropyl thioxanthone	5495-84-1	70-76		255, 384		•••	••			•••	•••
Omnirad DETX	2,4-diethylthioxanthone	82799-44-8	71-74		261, 385		•••	••			•••	•••
Omnipol TX	Di-ester of carboxymethoxy thioxanthone and polytetramethyleneglycol 250 type II photoinitiator	813452-37-8	Liquid at room temperature		245, 280, 390		•••	••	•	•	•••	•••
Esacure 3644	Ketocoumarin	-	67-72		325, 375		•••	•••	•••		•••	•••
Omnirad 1173	2-hydroxy-2-methyl-1-phenylpropanone	7473-98-5	Liquid at room temperature		244, 330		••	•••	•••	••	••	•

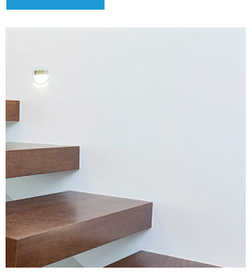
CATIONIC OLIGOMERS

	Chemical Identity	Cas No.	Typical Viscosity | mPa.s at T °C	T (°C)	Colour | APHA max	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing	Adhesion
Omnilane OC 1005	(3-4-epoxycyclohexane) methyl3'-4'-epoxycyclohexyl-carboxylate	2386-87-0	400	25	100	Fast cure, heat resistant, adhesion	•••	•••	•	•••	•••
Omnilane OC 3005	Bis(7-oxabicyclo[4.1.0]hept-3-ylmethyl) adipate	3130-19-6	575	25	250	Fast cure, higher flexibility, adhesion	•••	•••	••	•••	•••

	Chemical Identity	Cas No.	Melting Point	°C	Appearance	Product Attributes
INHIBITOR						
Omnistab IN 510 (Omnivadd IN 510)	Tris(N-hydroxy-N-nitrosophenylaminato-O,O'alumium	15305-07-4	165-172		Yellow powder	Effective polymerization inhibitor or storage stabilizer for photosensitive resins and monomers
Omnistab IN 515 (Omnivadd IN 515)	Liquid blend of tris(N-hydroxy-N-nitrosophenyl-aminato-O,O'alumium and 2-phenoxy ethyl acrylate	15305-07-4 + 48145-04-6	Liquid at room temperature		Medium to dark brown liquid	Polymerisation inhibitor and in can stabiliser for increased shelf life of UV/ EB formulations
Omnistab IN 518 (Omnivadd IN 518)	Liquid blend of tris(N-hydroxy-N-nitrosophenyl-aminato-O,O'alumium and propoxylated glycerol triacrylate	15305-07-4 + 52408-84-1	Liquid at room temperature		Medium to dark brown liquid	Polymerisation inhibitor and in can stabiliser for increased shelf life of UV/ EB formulations
Omnistab IN 526 (Omnivadd IN 526)	-	-	Liquid at room temperature		Dark brown liquid	Polymerisation inhibitor and in can stabiliser for increased shelf life of UV/ EB formulations
Omnista IN 535 (Omnivadd IN 535)	-	-	Liquid at room temperature		Thick Brown Liquid	Polymerisation inhibitor and in can stabiliser for increased shelf life of UV/ EB formulations
Omnistab IN 538 (Omnivadd IN 538)	2,6-bis(1,1-Dimethylethyl)-4-(phenylenemethylene) cyclohexa-2,5-dien-1-one	7078-98-0	-		Yellow to orange powder	Polymerisation inhibitor and in can stabiliser for increased shelf life of UV/ EB formulations
UV LIGHT ABSORBER						
Omnistab BP 12 (Omnivadd LS 12)	2-Hydroxy-4-n-octyloxy benzophenone	1843-05-6	47-49		Pale yellow cristal powder	Retards photo oxidative degradation and so helps prevent the discolouration and delamination of clear coatings
Omnistab 123 (Omnivadd LS 123)	mixture of bis(2,2,6,6-tetramethyl-1- ctyloxypiperidin-4-yl)-1,10-decanedioate and 1,8-bis[(2,2,6,6-tetramethyl-4- ((2,2,6,6- tetramethyl-1-octyloxypiperidin-4- yl)- decan-1,10-dioyl)piperidin-1- yl)oxy]octane	129757-67-1	Liquid at room temperature		Pale yellow liquid	HALS stabiliser based on aminoether functionality. Provides significant improvement in coatings performance by minimizing paint defects such as cracking and gloss reduction for clear coats
Omnistab LS 292 (Omnivadd LS 292)	Blend of Bis(1,2,2,6,6-pentamethylpiperidin-4-yl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	41556-26-7 + 82919-37-7	Liquid at room temperature		Pale yellow viscous liquid	Provides outstanding light stability to many industrial and automotive coatings
(Omnivadd LS 384-2)	Benzenepropanoic acid, 3-(2H-benzotriazol-2-yl)-5-(1, 1-dimethylethyl)-4-hydroxy-, C7-9-branched and linear alkyl esters, 5% 1-methoxy-2-propyl acetate	127519-17-9 + 108-65-6	Liquid at room temperature		-	UV absorber from the hydroxyphenylbenzotriazole family, specifically formulated for coatings applications
Omnistab UV 400 (Omnivadd LS 400)	2-hydroxyphenyl-s-triazine in 1-methoxypropan-2-ol	153519-44-9 + 107-98-2	Liquid at room temperature		clear liquid	UV absorber based on novel liquid hydroxyphenyl-triazine (HPT) technology for coatings, adhesives, sealants and printing in
Omnistab UV 928 (Omnivadd LS 928)	2-(2H-Benzotriazol-2-yl)-6-(1-methyl-1- phenylethyl)-4-(1,1,3,3-tetramethylbutyl)phenol	73936-91-1	108-112		Light yellow powder	UV light absorber for high performance coating applications such as wood, powder and coil coatings
ANTI-OXIDANT						
Omnistab 168 (Omnivadd AN 168)	Tris(2,4-ditert-butylphenyl)phosphite	31570-04-4	110-125		White powder	Preventing process induced degradation and extending the performance of primary antioxidants
Omnistab AN 1010 (Omnivadd AN 1010)	Pentaerythritol tetrakis(3-(3,5-ditert-butyl-4-hydroxyphenyl)propionate	6683-19-8	110–125		White powder	highly efficient, no discolouring stabilizer for organic substrates such as plastics, synthetic fibres, elastomers, adhesives, waxes, oils and fats
Omnistab AN 1076 (Omnivadd AN 1076)	Octadecyl 3-[4-hydroxy-3,5-bis(2- methyl-2-propanyl)phenyl]propanoate	2082-79-3	50-55		White crystalline granulate	Odourless, stable to light and has excellent colour retention. It has good compatibility with most substrates, low volatility and high resistance to extraction
ADDITIVE						
Omnistab SB Flakes (Omnivadd SB Flakes)	Sucrose benzoate	12738-64-6	93-100		Light yellow to pale white crystalline	Rheology modifier / hold-out additive, improves colour strength
Omnistab OB (Omnivadd OB)	2,5 thiophenediylbis (5-tert-butyl-1,3 benzoxazole)	7128-64-5	200-205		Pale to yellow crystalline powder	Optical brightener / fluorescent whitening agent. Stable at high temperatures and suitable for use in inks and coatings

The renaming of our Omnistab additive products is currently in process and will be completed shortly.








	Incorporation	Dosage | %	Active content | %	Product Attributes
SILICONE-FREE FOAM CONTROL ADDITIVES				
Omnivadd WD 2020	Before or after processing	0.1-0.7	20	Acid-cure and NC-curtain coating systems, unsaturated polyester and gelcoats
Omnivadd WD 2720	Before or after processing	0.1-1.0	-	Unsaturated polyester, epoxy and polyurethane systems
SILICONE-FREE SLIP & LEVELLING ADDITIVES				
Omnivadd XF 3260	End of process	0.05-1.0	100	Wetting, levelling and flow control agent with excellent anti-cratering properties
Omnivadd XF 3772	End of process	0.5-2.0	60	Solvent borne or solvent free systems, coil coatings, OEM and industrial coatings
Omnivadd SF 3777	End of process	0.5-1.0	70	Strong anti-cratering
SILICONE-CONTAINING SLIP & LEVELLING ADDITIVES				
Omnivadd XT 3031	Any stage	0.1-1.0	52	Good substrate wetting of critical substrates, heat resistant silicone additive,slip,mar resistance
Omnivadd EF 3077	End of process	0.1-1.0	-	Unique wetting and spreading properties and can also improve flow and levelling properties
Omnivadd XF 3230	Any stage	0.05-0.5	100	100% version of Omnivadd XF 3030
Omnivadd XF 3236	After thinning	0.02-0.3	100	Solvent borne wood finishes, industrial coatings and solvents-free coatings
Omnivadd XF 3290	Any stage	0.05-0.5	100	Premium additive that increases slip, surface smoothness and “soft-touch” effect

	Inorganics | % of OA	Organics | % of BET	Blacks | % of DBP	Active content | %	Product Attributes
HIGH MOLECULAR WEIGHT DISPERSANTS BASED ON POLYURETHANE CHEMISTRY					
Omnivadd EP 4029	10	30-50	25-30	100	VOC- and solvent-free high molecular weight wetting and dispersing additive
Omnivadd XP 4047	10	30-50	15-25	35	High quality industrial finishes including automotive OEM and refinish

	Dosage based on Pigment / Bentonite | %				
	Inorganics	Organics	Bentonite	Active content | %	Product Attributes
LOW MOLECULAR WEIGHT DISPERSANTS					
Omnivadd SP 5207	0.5-5.0	2.0-5.0	-	100	Solvent borne architectural and decorative paints
Omnivadd SP 5217	0.5-5.0	-	-	100	Solvent borne, solventless coatings and printing inks. Excellent for Titanium Dioxide and extenders
Omnivadd SP 5244	0.1-1.0	1.0-2.5	15-25	100	Solvent-free version of Omnivadd SP 5044
MODERN LOW MOLECULAR WEIGHT DISPERSANTS					
Omnivadd XP 6230	1-3	-	-	100	Aliphatic polyether with acidic groups
Omnivadd XP 6231	1-3	-	-	100	Aliphatic polyether with acidic groups especially for PVC plastisol purposes
PureVadd 6245	5-10	10-20	15-25	100	Hybrid dispersant for universal colorants for tinting systems, VOC- free and low viscosity pumpable dispersant. Bio-based Content (ASTM D6866-21) : 29 %

OA: Oil absortion value
BET: Surface area value
DBP: Dibutyl Phtalate absorption value

MONOFUNCTIONAL MONOMERS

Chemical Identity		Cas No.	Biobased content | ASTM D 6866-21	Functionality	Typical Viscosity | mPa.s at 25 °C	Colour | APHA max	Tg | °C	Surface Tension 25°C | m n/m	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
PureOmer 4012	Isobornyl acrylate (IBOA)	5888-33-5	78	1	10	50	88	32	Solvency, adhesion, good flexibility, thermoforming	••	•	••	••	•••	•
PureOmer 4812	Lauryl acrylate (LA)	2156-97-0	81	1	7	200	-3	30	Flexibility, hydrophobic, good adhesion, low shrinkage, high renewable content	•		•••	••	••	

TRI- AND HIGHER FUNCTIONAL MONOMERS

PureOmer 4094 (LT)	Glyceryl [4 PO] triacrylate (GPTA)	52408-84-1	14	3	85	100	33	33	Pigment wetting, flexibility, impact resistance	•••	••	••	••	•	•••

METHACRYLATES

PureOmer 2012	Isobornyl methacrylate (IBOMA)	7534-94-3	72	1	6	50	150	31	Adhesion, flexibility, low shrinkage, abrasion resistance, high Tg	•	•	••		•••	

EPOXY ACRYLATES

Chemical Identity		Biobased content | ASTM D 6866-21	Functionality	Typical Viscosity | mPa.s at T °C	T | °C	Colour | Gardner max	Tensile Strength | psi	Elongation | %	Tg | °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
PureOmer 3005	Acrylated epoxy soy oil (ESBOA)	84	2	20000	25	7	1150	16	8	Flexibility, excellent pigment wetting	•	•	••	••	•	•••
PureOmer 3026 (LT)	Epoxy diacrylate	21	2	6000	60	1				High reactivity, low odor, chemical resistance, improved flexibility	••	•••	•	•	•	••
PureOmer 3026-20G (LT)	Epoxy diacrylate diluted with 20% GPTA	19,6	2	85000	25	1				High reactivity, low odor, chemical resistance, improved flexibility	•••	•••	•	•	•	••
PureOmer 3026-40G	Epoxy diacrylate diluted with 40% GPTA	18,2	2	9000	25	1				High reactivity, low odor, chemical resistance, improved flexibility	•••	•••	•	•	•	••

POLYESTER ACRYLATES

PureOmer 5433	Polyester tetraacrylate	47	4	4500	60					Pigment wetting, litho properties, abrasion resistance, toughness	••	•	•••			•••
PureOmer 5437	Polyester tetraacrylate	14	4	9500	25	5				Excellent pigment wetting, good adhesion, scratch resistance, high gloss	••	••	••		•••	•••
PureOmer 5443	Polyester hexaacrylate	46	6	32500	25					High reactivity, PETA and PETIA free, good litho performance	•••	•••	••	•	•	•••
PureOmer 5450	Fatty acid modified polyester hexaacrylate	40	6	9500	25	15			17	High reactivity, litho properties, pigment wetting	•••	••	••	•		•••

POLYETHER ACRYLATES

PureOmer 5662	Amine modified polyether acrylate	14	4	3000	25	1				Adhesion, flexibility, coating hardness	•••	••	•••	••	••	••

Contact information

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Our technical experience and flexibility to find the right solution for each of our customers – large or small – is a major factor in our industry leadership.

IGM Resins is a fully integrated global supplier of Energy Curing intermediates. We have the capability to develop energy curing materials, customize them to meet your requirements or increase your productivity, and help you maximize their performance in your application.

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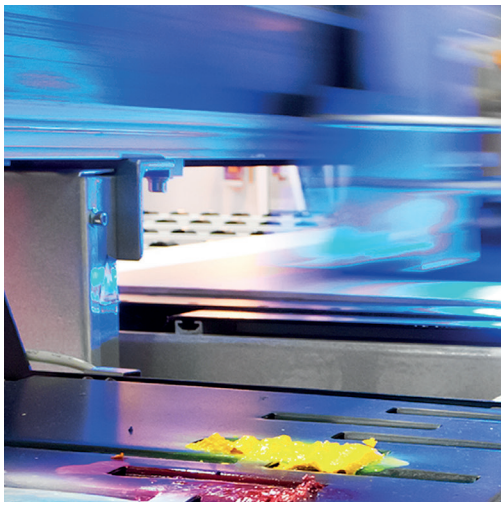

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