

Asia Pacific Product Guide



RAHN AG
Dörflistrasse 120 | CH-8050 Zürich
Tel. +41 44 315 42 00
Fax +41 44 315 42 65
EnergyCuring@rahn-group.com
www.rahn-group.com

RAHN GmbH
Hahnstrasse 70 | DE-60528 Frankfurt am Main
Tel. 0800 1 816 015
Fax 0800 1 816 016

RAHN USA Corp.
1005 North Commons Drive | Aurora, Illinois 60504, USA
Tel. +1 630 851 4220
Fax +1 630 851 4863



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Product	Product Data (Typical Values)						HS & Registration						Properties					Applications						Key Features					
	Description	Functionality	Color	Acid Value (mg KOH/g)	Viscosity (mPa.s at 25 °C) (cps at 77 °F)	Tg (°C)	REACH Status	TSCA	AICS	ECL	MITI	IECSC	Reactivity	Pigment Wetting	Flexibility	Hardness	Chemical Resistance	Adhesion	Offset Inks	Flexo Inks	Screen Inks	Overprint Varnishes	Wood Coatings	Composites	Electronics	Adhesives	Coatings on Plastics	Medical	
Diluents																													
GENOMER* 1121	IBOA	1	10 A	0.1	10	80	P	L	L	L	L	L	n/a	n/a	n/a	n/a	n/a	n/a	•	•	•	•	•	•	•	•	•	•	High Tg but also good flexibility, good cutting power, good adhesion and moisture resistance
GENOMER* 1122	Aliph. Ureth. Acryl.	1	50 A	1.0	30	-3	P	L	L	L	L	L	n/a	n/a	n/a	n/a	n/a	n/a	•	•	•	•	•	•	•	•	•	•	High flexibility and low odor, excellent adhesion on plastics
Epoxy (Meth)Acrylates																													
GENOMER* 2253	Mod. Epoxy Acrylate	2	1 G	1	30 000	0	P	L	L	L	L	L	++++	++	++++	+	++++	++++	•	•	•	•	•	•	•	•	•	•	High reactivity, high flexibility, medium viscosity, good adhesion on plastics
GENOMER* 2263	Epoxy Acrylate	2	1 G	4	4 000 (60°C/140°F)	47	P	L	L	L	L	L	++++	+	++	++++	++++	+	•	•	•	•	•	•	•	•	•	•	Excellent reactivity, high scratch and chemical resistance
EPOXY METHACRYLATE 97-053	Epoxy Methacrylate	2	2 G	-	4 500 (60°C/140°F)	48	P	L	L	L	L	L	+	+	+	++++	++++	+++									•	Very low shrinkage, provides excellent hardness, abrasion and scratch resistance	
Polyether/Polyester Acrylates																													
GENOMER* 3364	Polyether Acrylate	3	15 A	0.5	130	32	E	L	L	L	L	L	+++	++	++	+++	++++	++	•	•	•	•	•	•	•	•	•	•	High reactivity, low viscosity, good solvent resistance
GENOMER* 3414	Polyether Acrylate	4	50A	0,5	4 500	-17	E	L	L	L	L	L	++++	++	++++	++	++++	+++	•	•	•	•	•	•	•	•	•	•	High reactivity, low viscosity, good solvent and scratch resistance, flexibility and adhesion, low Tg
GENOMER* 3485	Polyester Acrylate	4	3G	8	500	41	P	L	L	L	-	L	++	++	++	+++	++++	+++	•	•	•	•	•	•	•	•	•	•	Low viscosity, good surface hardness, chemical resistance and adhesion
GENOMER* 3497	Polyether Acrylate	4	40 A	0.5	600	30	E	L	L	L	L	L	+++	++	+++	++	++++	++	•	•	•	•	•	•	•	•	•	•	High reactivity, low viscosity, good solvent resistance
GENOMER* 3611	Polyester Acrylate	6	10 G	8	8 000	35	P	L	-	-	-	-	+++	++++	+	++++	++	+++	•	•	•								High reactivity, very good pigment wetting and lithographic behavior
POLYESTER ACRYLATE 03-849	Polyester Acrylate	3	3 G	8	20 000	28	E	L	L	L	L	L	+++	+++	++++	++	+++	++	•	•	•	•	•	•	•	•	•	•	Good reactivity, good abrasion and chemical resistance
Urethane (Meth-)Acrylates																													
GENOMER* 4188/EHA	Aliphatic UA	1	1 G	5	120 000	-16	E	L	-	L	L	L	+	++	++++	+	+	++++											High tack, high elongation and excellent adhesion
GENOMER* 4215	Aliphatic UA	2	2 G	1	20 000 (60°C/140°F)	-24	E	L	L	-	-	L	+++	+++	++++	+	+++	++++	•	•	•	•	•	•	•	•	•	•	Good adhesion to PVC and other plastics
GENOMER* 4217	Aromatic UA	2	1 G	3	100 000	-35	E	L	L	L	-	L	++	+++	++++	+	++	+++	•	•	•								Excellent flexibility, good adhesion to difficult substrates
GENOMER* 4256	Aliphatic UMA	2	3 G	4	15 000 (in 20% Toluene)	-24	E	L	-	-	-	-	+	++	++++	+	+	+++										•	Excellent elasticity and elongation, improves light stability and chemical resistance
GENOMER* 4267	Aliphatic UA	2	1 G	4	16 000 (60°C/140°F)	-11	E	L	-	L	L	L	++	+++	++++	++	+++	++++	•	•	•	•	•	•	•	•	•	•	Excellent flexibility and toughness, good adhesion
GENOMER* 4269/M22	Aliphatic UA	2	1 G	3	55 000	-15	E	L	-	L	L	L	+	+++	++++	+	+	++++		•	•	•	•	•	•	•	•	•	Flexibilizer resin, good toughness, high flexibility, excellent adhesion
GENOMER* 4297	Aliphatic UMA	2	200 A	2	8 700	43	P	L	L	-	L	L	+	++	+	++++	++++	++										•	Good stain and chemical resistance. High tensile strength and E-modulus, good abrasion resistance and very low yellowing
GENOMER* 4302	Isocyanurate	3	80 A	1	10 000 (60°C/140°F)	40	P	L	-	L	L	L	+++	++	++++	++++	++++	+++				•	•	•	•	•	•	•	Fast, hard and excellent chemical resistance, non yellowing, high e-modulus
GENOMER* 4312	Aliphatic UA	3	1 G	1	60 000	31	P	L	-	L	L	L	+++	+++	++++	++	+++	+++	•	•	•	•	•	•	•	•	•	•	High reactivity and good flexibility, good adhesion, abrasion and scratch resistance
GENOMER* 4316	Aliphatic UA	3	1 G	1	58 000	4	E	L	-	L	L	L	+++	+++	++++	++	++	+++	•	•	•	•	•	•	•	•	•	•	High reactivity and good flexibility, good adhesion, abrasion and scratch resistance

Available dilutions: GENOMER* 4188/M22, GENOMER* 4215/M22

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Urethane (Meth-)Acrylates																												
GENOMER* 4425	Aliphatic UA	4	1 G	5	4 500	33	E	L	LVE	-	-	-	+++	++	++	+++	++++	+++		•	•	•	•			•		High reactivity, low viscosity, balance of flexibility and good hardness
GENOMER* 4590/PP	Aliphatic UA	5	2 G	1	11 000	30	P	L	-	L	L	-	+++	+++	+	++++	++++	++	•	•	•	•				•		Low viscosity, excellent reactivity and hardness
URETHANE ACRYLATE 98-283/W	Aliphatic UA Dispersion	3	-	1	30	46	E	L	-	-	-	-	++	+	++	+++	++	+++		•	•							Water-based dispersion, sandable after physical drying
URETHANE ACRYLATE 00-022	Aliphatic UA hydroxy functional	3	1 G	1	50 000	33	E	L	-	-	-	-	+++	++	++	++++	++++	++			•	•	•		•	•	Dual curable OH and acrylate groups with outstanding chemical resistance and hardness	


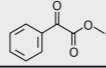
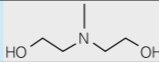
Product	Product Data (Typical Values)						HS & Registration						Properties					Applications						Key Features				
Description	Functionality	Color	Acid Value (mg KOH/g)	Viscosity (mPa.s at 25 °C) (cps at 77 °F)	Tg (°C)	REACH Status	TSCA	AICS	ECL	MITI	IECSC	Reactivity	Pigment Wetting	Flexibility	Hardness	Chemical Resistance	Adhesion	Offset Inks	Flexo Inks	Screen Inks	Overprint Varnishes	Wood Coatings	Composites	Electronics	Adhesives	Coatings on Plastics	Medical	
Oligoamines																												
GENOMER* 5161	Acrylated Amine Synergist	<1	2 G	230 ¹⁾	80	-	P	L	L	P	-	-	n/a	n/a	n/a	n/a	n/a	n/a		•	•	•	•			•	•	Improves cure speed and surface cure. Low viscosity, high amine number, excellent compatibility
GENOMER* 5275	Amine Acrylate	2	1 G	150 ¹⁾	3 700	-45	E	L	L	L	L	L	++++	n/a	++++	++	+	++++		•	•	•	•			•	•	Fast surface cure rate, low odor and good adhesion, low Tg flexibilizer
Co-Resins																												
GENOMER* 6043/M22	Modified Polyester Resin	n/a	1 G	5	30 000	-18	P	L	L	L	L	L	+	++	++++	+	+	++++		•						•		Flexibilizer resin for PSA, low yellowing, excellent adhesion
GENOMER* 6050/TM	Modified Polyester Resin	n/a	2 G	4	125 000	15	P	L	L	L	L	L	++	++++	++++	++	+	++++	•	•	•	•				•	•	Excellent adhesion on plastics, good offset behavior
GENOMER* 6052/TM	Modified Polyester Resin	n/a	3 G	5	125 000	35	P	L	LVE	-	L	-	++	++++	++++	++	+	++++	•	•	•	•				•	•	Excellent adhesion on plastics, good offset behavior
GENOMER* 6054/NP	Modified Polyester Resin	n/a	3 G	1	12 000	-7	P	L	L	-	L	-	+	+++	+++	++	+	++++		•	•	•				•	•	Excellent adhesion on various substrates, low viscosity for flexo inks and overprint varnishes
GENOMER* 6083/HD	Inert Resin	n/a	2 G	2	110 000	41	P	L	L	L	L	L	+	++++	++	+++	++	++++		•	•	•				•	•	Excellent adhesion on plastics, pigment wetting, high Tg
GENOMER* 6085/NP	Aldehyde Resin	n/a	3 G	1	9 000	37	P	L	L	L	L	L	+	+++	+++	++	+	++++	•	•	•					•	•	Good adhesion and hardness, low viscosity for flexo inks and overprint varnishes
GENOMER* 6086/HD	Acrylic Resin	n/a	4 G	15	125 000	58	P	L	LVE	L	L	L	+	++	++	+++	+	++++		•	•				•	•	Good hardness and adhesion on various substrates	
CO-RESIN 02-819/M22	Modified Polyester Resin	n/a	4 G	6	100 000	12	P	L	L	L	L	L	+	++++	++++	+	+	++++								•		Good balance of cohesion and loop-tack, good adhesive properties, improves SAFT
Specialties																												
GENOMER* 7151	Carboxyfunctional Polyester Acrylate	1	2 G	210	7 000	39	P	L	L	-	L	L	++	n/a	+	+++	+	++++			•	•			•	•	Good adhesion on metal and glass	
GENOMER* 7287	Speciality Resin	2	40 A	2	12	-33	P	L	L	L	L	L	++	++	+++	++	++++	+++		•	•	•	•			•		Provides superior matting properties, low viscosity and reasonable reactivity. Easy incorporating of matting agent.

¹⁾ Amine Value

Available dilutions: GENOMER* 6050/GP, GENOMER* 6083/M22, GENOMER* 6083/TP, GENOMER* 6083/ETM

Product	Product Data (Typical Values)				HS & Registration						Properties			Applications										Key Features		
	Description	Color	Acid Value (mg KOH/g)	Viscosity (mPa.s at 25 °C) (cps at 77 °F)	REACH Status	TSCA	AICS	ECL	MITI	IECSC	Retain Reactivity	Retain Color	Retain Viscosity	Adhesion	Pigment Wetting	Offset Inks	Flexo Inks	Screen Inks	Overprint Varnishes	Wood Coatings	Composites	Electronics	Adhesives	Coatings on Plastics	Medical	
GENORAD* 16	In-can Stabilizer	3 G	15	1 200	P	L	L	L	L	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Highest performance stabilizer for grinding and storage, works anaerobically, no effect on reactivity
GENORAD* 18	In-can Stabilizer	4 G	7	2 000	P	L	L	L	L	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	High performance stabilizer for grinding and storage, works anaerobically, no effect on reactivity
GENORAD* 20	In-can Stabilizer	1 G	2	1 000	P	L	L	L	L	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Excellent stabilizer in clear coatings
GENORAD* 21	In-can Stabilizer	10 G	30	2 000	P	L	LVE	L	L	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	In-can stabilizer for UV-curable metallic inks
GENORAD* 22	In-can Stabilizer	2 G	30	20	P	L	L	L	L	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Premium stabilizer for grinding and storage, works anaerobically, no effect on reactivity. Low viscosity makes it especially suitable for UV inkjet inks.
GENORAD* 40	Adhesion Promoter	200 A	340	2 000	P	L	L	L	L	L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Adhesion promoter on metal, glass and plastics
GENORAD* 50	Dispersing Aid	2 G	–	1 500	P	L	LVE	–	–	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Primarily recommended as dispersing aid for organic pigments
GENORAD* 51	Dispersing Aid	2 G	–	1 500	P	L	LVE	–	–	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Primarily recommended as dispersing aid for carbon blacks

Product	Product Data (Typical Values)				HS & Registration						Applications						Key Features				
	Description	Viscosity (mPa.s at 25 °C) (cps at 77 °F)	Molecular Weight	Absorption (nm)	REACH Status	TSCA	AICS	ECL	MITI	IECSC	Offset Inks	Flexo Inks	Screen Inks	Overprint Varnishes	Wood Coatings	Composites	Electronics	Adhesives	Coatings on Plastics	Medical	
Polymeric Photoinitiators																					
GENOPOL* AB-1	Polymeric Aminobenzoate Derivative	15 000	860	228, 310	E	L	LVE	-	L	L	•	•	•			•	•	•			Low migration and odor, excellent compatibility in UV formulations
GENOPOL* BP-1	Polymeric Benzophenone Derivative	160 000	960	245, 325	E	L	LVE	-	L	L	•	•	•	•	•	•	•	•	•	•	Low migration and odor, excellent compatibility in UV formulations
GENOPOL* TX-1	Polymeric Thioxanthone Derivative	160 000	820	225, 310, 375	E	L	LVE	-	-	L	•	•	•			•	•				Low migration and odor, excellent compatibility in UV formulations

Product	Product Data (Typical Values)					HS & Registration						Applications						Key Features				
	Description	Purity (%)	Melting Point (°C) (Viscosity [mPa.s at 25 °C])	Absorption (nm)	Structure	REACH Status	TSCA	AICS	ECL	MITI	IECSC	Offset Inks	Flexo Inks	Screen Inks	Overprint Varnishes	Wood Coatings	Composites	Electronics	Adhesives	Coatings on Plastics	Medical	
Photoinitiators																						
GENOCURE* CQ	Camphorquinone	> 99.0	198-202	470		E	L	L	-	-	L											• Produced with the Selenium-free method, provides good through cure in long wavelength (visible) UV light, soluble in alcohol, ketones, acrylates and methacrylates
GENOCURE* LTM	Liquid Photoinitiatorblend	> 97.0	(~20)	253/368	-	P	L	L	L	L	L		•	•	•	•	•	•	•	•	•	White and thick coatings, liquid with good balance of surface and through cure, non yellowing
GENOCURE* MBF	Methylbenzoylformate	> 97.0	(~5)	257		P	L	L	L	L	L				•	•	•	•	•	•	•	Clear coatings, excellent surface curing photoinitiator especially in amine-free systems, low odor
GENOCURE* MDEA¹⁾	N-Methyldiethanolamine	> 99.0	(~100)	220		P	L	L	L	L	L		•	•	•	•	•	•	•	•	•	Low cost amine synergist

¹⁾ GENOCURE* MDEA—subject to chemical weapon convention

Registration Status

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EU)

TSCA = Toxic Substances Control Act (USA)

AICS = Australian Inventory of Chemical Substances

ECL = Korean Existing Chemicals List

MITI = Japanese Existing and New Chemical Substances

IECSC = Inventory of Existing Chemical Substances in China

L = Listed

- = Not listed

LVE = Low Volume Exemption

P = Pre-Registered

E = Exempt

R = Registered

Color

A = APHA

G = Gardner

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RAHN will implement CLP directive 1275/2008/EC from December 1st 2010 for all products

Disclaimer

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