

We Enable the transformation of Light for a Better Future



PureLine

Product guide



ENERGY CURING RAW MATERIAL AND TECHNICAL SOLUTION PROVIDER

IGM Resins is the leading global provider of energy curable 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, monomers, oligomers and additives, is the cornerstone of our success.

Our dedication to energy curing technology and the markets we serve is emphasized by the development of next generation

products for innovative integrated solutions, and ongoing investment into state-of-the-art manufacturing capabilities.

HOW TO GET MORE FROM US CARBON FOOTPRINT

Next to social development and economic growth, environmental protection is a key pillar of IGM Resins' sustainability strategy, which are all critical in shaping a better future for generations to come. We are always looking at ways to improve the carbon footprint of our processes and products.

WASTE REDUCTION AND ENERGY OPTIMIZER

We define and implement Operational Excellence initiatives at our global manufacturing sites.



We cannot afford to waste our planet's valuable resources – which is why we continuously review our approach to waste reduction and energy optimization.

RESPONSIBLE MANAGEMENT OF HARMFUL SUBSTANCES

At IGM Resins, nothing is a higher priority than the health and safety of people. In line with our purpose and recently launched sustainability strategy, we are leading the UV industry in the elimination of harmful substances.

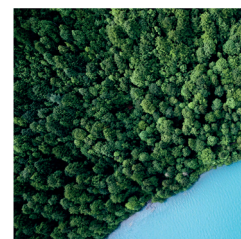
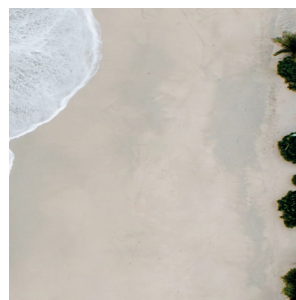
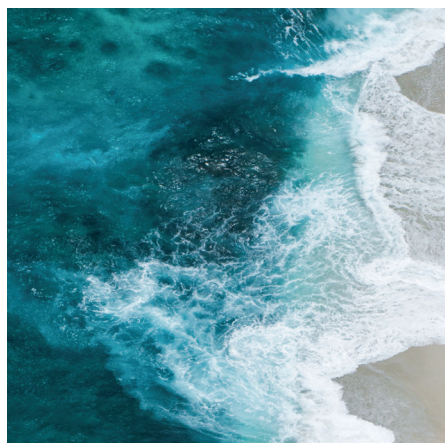
By working closely with partners and suppliers, and by optimizing its production processes, IGM Resins is making fast progress in eliminating unintendedly created substances from its product portfolio.

BIO-BASED CONTENT

Bio-based raw materials are a good way to reduce the carbon footprint of products. It's important to gauge the actual bio-based content using biogenic carbon fraction determination: Carbon-14 (14C) measurement, in line with ASTM D6866-21. This way, we can ensure we always choose the right products and contribute to a better, more sustainable world.

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.





Chemical Identity

Cas No.

Biobased
content | ASTM
D 6866-21

Functionality

Typical
Viscosity |
mPa.s at 25 °C

Colour |
APHA max

Tg | °C

MONOFUNCTIONAL MONOMERS

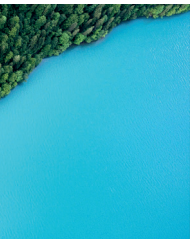
PureOmer 4012	Isobornyl acrylate (IBOA)	5888-33-5	78	1	10	50	88
PureOmer 4812	Lauryl acrylate (LA)	2156-97-0	81	1	7	200	-3

TRI- AND HIGHER FUNCTIONAL MONOMERS

PureOmer 4094	Glyceryl [4 PO] triacrylate(GPTA)	52408-84-1	14	3	85	100	33
---------------	-----------------------------------	------------	----	---	----	-----	----

METHACRYLATES

PureOmer 2012	Isobornyl methacrylate (IBOMA)	7534-94-3	72	1	6	50	150
---------------	--------------------------------	-----------	----	---	---	----	-----

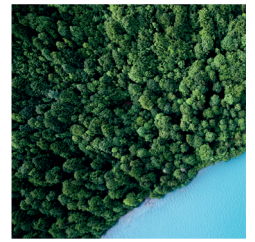
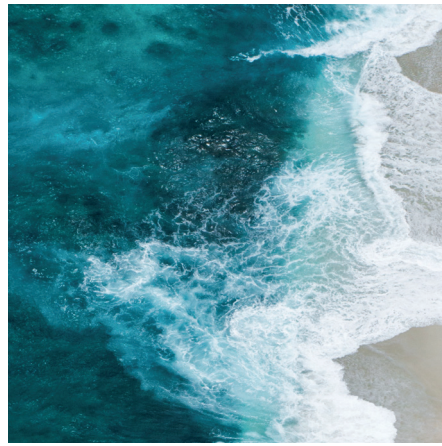


Surface
Tension 25°C |
m n/m

Product Attributes

Reactivity
Hardness
Flexibility
Yellowing
Resistance
Adhesion
Pigment
Wetting

32	Solvency, adhesion, good flexibility, thermoforming	••	•	••	••	•••	•
30	Flexibility, hydrophobic, good adhesion, low shrinkage, high renewable content	•		•••	••	••	
33	Pigment wetting, flexibility, impact resistance	•••	••	••	••	•	•••
31	Adhesion, flexibility, low shrinkage, abrasion resistance, high Tg	•	•	••		•••	



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 | %

EPOXY ACRYLATES

PureOmer 3005	Acrylated epoxy soy oil (ESBOA)	84	2	20000	25	7	1150	16
---------------	---------------------------------	----	---	-------	----	---	------	----

POLYESTER ACRYLATES

PureOmer 5433	Polyester tetraacrylate	47	4	4500	60			
PureOmer 5437	Polyester tetraacrylate	14	4	9500	25	5		
PureOmer 5443	Polyester hexaacrylate	46	6	32500	25			
PureOmer 5450	Fatty acid modified polyester hexaacrylate	40	6	9500	25	15		

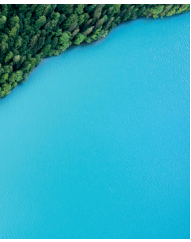
POLYETHER ACRYLATES

PureOmer 5662	Amine modified polyether acrylate	14	4	3000	25	1		
PureOmer 5850	Amine modified polyether acrylate	18	2.5	105	25	2		

Our technical team is here to offer you support and advice to help you meet your goals. For our full product range, please refer to the UV/EB Radcure Product Guide or visit our website.

Disclaimer:

The information in this overview is presented in good faith and believed to be correct, but is provided on the condition that persons receiving it will make their own assessment on its correctness referring to the latest version of official documentation (e.g. safety data sheet).



T_g | °C

Product Attributes

Reactivity
Hardness
Flexibility
Yellowing Resistance
Adhesion
Pigment Wetting

T _g °C	Product Attributes	Reactivity	Hardness	Flexibility	Yellowing Resistance	Adhesion	Pigment Wetting
8	Flexibility, excellent pigment wetting	•	•	••	••	•	•••
	Pigment wetting, litho properties, abrasion resistance, toughness	••	•	•••			•••
	Excellent pigment wetting, good adhesion, scratch resistance, high gloss	••	••	••		•••	•••
	High reactivity, PETA and PETIA free, good litho performance	•••	•••	••	•	•	•••
17	High reactivity, litho properties, pigment wetting	•••	••	••	•		•••
	Adhesion, flexibility, coating hardness	•••	••	•••	••	••	••
20	Low viscosity, high reactivity	•••	••	•••	••	••	••

Contact information

IGM Resins in the world



EUROPE

IGM Resins B.V.

Gompenstraat 49
5145 RM Waalwijk, The Netherlands
T: +31 416 286073
F: +31 416 564632

IGM Holding B.V. Iberica

Paseo de Gracia, 118 - principal
08008 Barcelona, Spain
T: +34 93 476 5631
F: +34 93 396 1837

IGM Resins Italia S.r.l.

Insubrias Biopark
Via Roberto Lepetit, 34
21040 Gerenzano (VA), Italy
T: +39 02 9647 4929

ADD Additives BV

Daltonstraat 42
3846 BX Harderwijk
The Netherlands
T: +31 (0) 880 701 700
info@add-additives.com



- Sales and Distribution
- Manufacturing
- R&D / Tech Support

APPLICATION LABORATORIES

IGM Resins Italia S.r.l.
 Insubrias Biopark
 Via Roberto Lepetit, 34
 21040 Gerenzano (VA),
 Italy

Insight High Technology (Beijing) Co., Ltd
 Room 305, Building 16,
 No. 18 Anningzhuang East
 Road, Haidian District,
 Beijing, P. R. China

IGM (Anqing) High Technology Development Co., Ltd.
 No. 16, Crown Road, High-Tech Zone,
 Anqing City,
 246000, Anhui Province,
 PRC.

IGM Resins USA Inc.
 3300 Westinghouse Blvd
 Charlotte, NC 28273,
 United States of America

ADD Additives BV
 Daltonstraat 42
 3846 BX Harderwijk
 The Netherlands

For IGM's global network of officially appointed agents, please visit our website www.igmresins.com

ASIA-PACIFIC

IGM Resins (Shanghai) Management Co., Ltd.
 Unit 1704, CITIC Plaza
 No. 859 North Sichuan Road,
 Hongkou District, Shanghai,
 200085 P. R. China
 T: +86 0 215 2080993
 F: +86 0 215 2080930

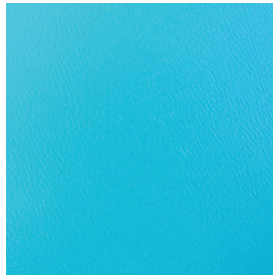
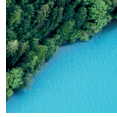
IGM Resins International Trading Taiwan Ltd.
 15F. - 3, No. 88
 Zhongshan Road
 Zhongli City, Taoyuan, County
 320
 Taiwan
 T: +886 0 342 75275
 F: +886 0 342 75279

IGM Japan GK
 7th floor, Tsukiji Front Building,
 2-2-7, Tsukiji, Chuo-ku, Tokyo,
 Japan
 T: +81 3 6260 6341

AMERICAS

IGM Resins USA Inc.
 3300 Westinghouse Blvd
 Charlotte, NC 28273
 United States of America
 T: +1 704 588 2500
 F: +1 630 5249094

Quiminutri Comercio de Especialidades Quimicas Ltda.
 Rua Alziro Cicchetto, 205
 Distrito Industrial, Vinhedo, Brazil
 T: +55 19 3856 4480



DISCLAIMER

The information and recommendations provided in this product catalogue are presented in good faith and believed to be correct. IGM Resins makes no representations or warranties as to the completeness or accuracy of the information provided.

The information is provided on the condition that the persons receiving it will make their own assessment as to its suitability for their own purpose and use.

No representations or warranties, either express or implied, of fitness for purpose or of any other nature are made herein with respect to information or product to which the information refers.

PureLine™, PureOmer™, Photomer, Omnipol, Omnirad, Omnicat and Esacure are registered trademark of IGM Resins.



sales@igmresins.com
www.igmresins.com

