

Bomar[®] BR-930D Multifunctional Acrylates

APPLICATIONS

- 3D Printing Inks & Resins
- Wood Floor Coatings
- Furniture Coatings
- Inkjet

FEATURES

- High Heat Distortion Temperature
- Impact Resistance
- Good Toughness
- High Temperature Stability

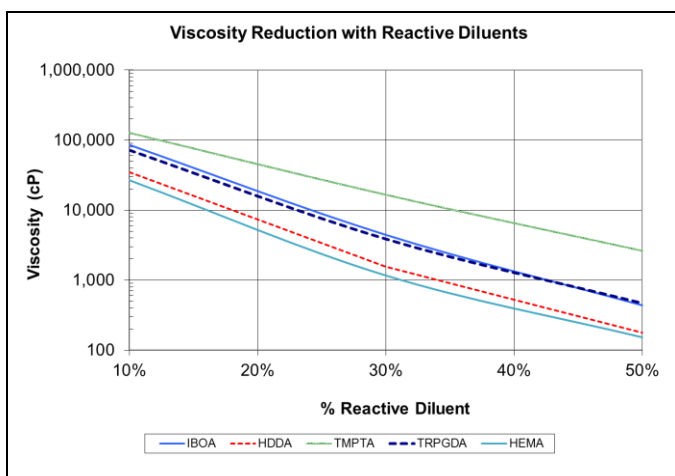
FEATURES

- Rapid Cure Speed
- Low Skin Irritation
- Enhances Weatherability
- Low Shrinkage

Bomar[®] BR-930D is a trifunctional, urethane acrylate oligomer which offers high heat distortion temperatures. This product also offers high abrasion resistance, solvent resistance, and durability. BR-930D is perfect for 3D printing applications using SLA, 3D inkjet, and DLP printers.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (60°C)	7,725
Pt-Co (APHA) Color	55
Refractive Index (25°C)	1.51
Density, g/cm ³ (25°C)	1.106



Brookfield – CAP 2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TP50	TM50	H50	HE30
BR-930D	70	50	50	50	50	70
IBOA	30	50				
TMPTA				50		
TPGDA			50			
HDDA					50	
HEMA						30
Irgacure [®] 184	2	2	2	2	2	2
Viscosity, 25°C *	4,425	435	467	2,625	176	1,163

* Brookfield – CAP 2000+ @ 25°C

CURED MECHANICAL PROPERTIES

Property	I30	I50	TP50	TM50	H50	HE30
Tensile Strength, psi**	5,012	4,740	4,092	4,165	4,213	4,692
Elongation, %**	4.59	3.39	5.38	1.89	3.36	5.59
Elastic Modulus, ksi**	215	213	201	263	182	219
Durometer Hardness	87D	86D	92D	92D	85D	86D
Water Absorption, % (24 hrs)	0.22	0.18	0.36	0.35	0.27	1.29
MEK Double Rubs (#)	20	9	>200	>200	>200	>200

T_g = 95°C (DMA); Peak on delta; HDT = 86°C @ 66 psi (DMA).

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TP50	TM50	H50	HE30
Aluminum		✓✓	✓			✓✓✓
Cold Rolled Steel	✓	✓✓	✓		✓	✓✓✓
Glass	✓	✓✓✓				✓✓✓
HDPE						
PET	✓	✓✓	✓✓		✓✓	✓✓✓
PMMA		✓✓✓	✓		✓✓	✓✓✓
Polycarbonate	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Stainless Steel	✓	✓✓	✓✓			✓✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

© 2016 Dymax Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by Dymax Corporation, U.S.A. Irgacure[®] is a trademark of BASF Corporation.

Technical data provided is of a general nature and is based on laboratory test conditions. Dymax does not warrant the data contained in this bulletin. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax does not assume responsibility for test or performance results obtained by users. It is the user's responsibility to determine the suitability for the product application and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this communication shall act as a representation that the product use or application will not infringe on a patent owned by someone other than Dymax or act as a grant of license under any Dymax Corporation Patent. Dymax recommends that each user adequately test its proposed use and application before actual repetitive use, using the data in this communication as a general guideline.

Dymax Corporation
860.482.1010 | info@dymax.com | www.dymax.com

Dymax Europe GmbH
+49 (0) 611.962.7900 | info_de@dymax.com | www.dymax.de

Dymax Engineering Adhesives Ireland Ltd.
+353.1.231.4696 | info_ie@dymax.com | www.dymax.ie

Dymax Oligomers & Coatings
860.626.7006 | info_oc@dymax.com | www.dymax-oc.com

Dymax UV Adhesives & Equipment (Shanghai) Co. Ltd.
+86.21.37285759 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax UV Adhesives & Equipment (Shenzhen) Co. Ltd.
+86.755.83485759 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Asia (H.K.) Limited
+852.2460.7038 | dymaxasia@dymax.com | www.dymax.com.cn

Dymax Asia Pacific Pte. Ltd.
+65.6752.2887 | info_ap@dymax.com | www.dymax-ap.com

Dymax Korea LLC
+82.2.784.3434 | info_kr@dymax.com | www.dymax.com/kr