

Bomar™ BR-952 Multifunctional (Meth)Acrylate

APPLICATIONS

- Predominant Resin in Nail Gels
- Energy-Curing Roof, Wall, and Floor Coating
- Light Curable, Dental Composite Resin

FEATURES

- Fast Curing
- Low in Color
- Provides Toughness
- Low MeHQ Content

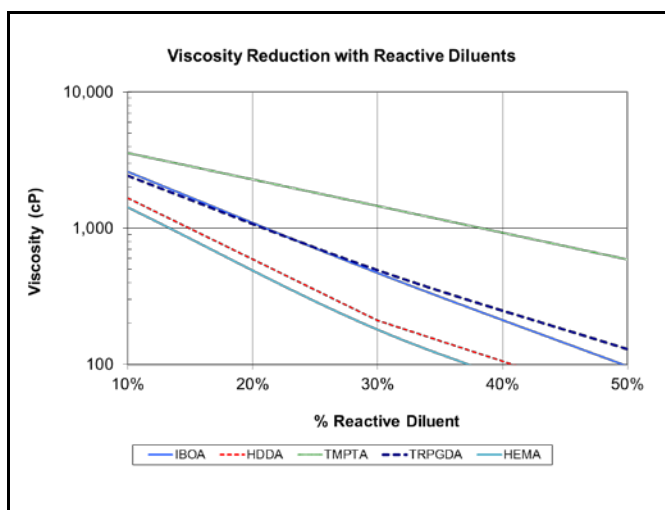
FEATURES

- High Gloss
- Bisphenol A Free
- Non-Yellowing
- Low Viscosity

Bomar™ BR-952 is an aliphatic Urethane Dimethacrylate. The low viscosity allows for ease of use in coating applications for the nail care industry. BR-952 is employed when a high gloss and tough nail gel coating is desired. This material is also used in coatings for construction applications when improved toughness is desired for excellent durability.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	7800
Pt-Co (APHA) Color	26
Refractive Index (25°C)	1.48
Density, g/cm ³ (25°C)	1.1



Brookfield – CAP 2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50	HE30
BR-952	70	50	50	50	50	70
IBOA	30	50				
TMPTA			50			
TPGDA				50		
HDDA					50	
HEMA						30
Omnirad™ 481	2	2	2	2	2	2
Viscosity, 25°C *	450	100	600	130	50	180

* Brookfield – CAP 2000+ @ 25°C

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50	HE30
Tensile Strength, psi**	10,000	8,700	8,750	8,000	8,200	7,300
Elongation, %**	7	6	4	6	6	12
Elastic Modulus, ksi**	230	180	260	180	200	150
Durometer Hardness	90D	90D	95D	90D	90D	93D
Water Absorption (24 hrs)	0.05	0.25	0.29	0.29	0.25	0.9
MEK Double Rubs (#)	>200	>200	>200	>200	60	>200

 T_g (DMA) = 159°C; Peak tan delta; cured with 2 phr of Omnirad™ 481

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TM50	TP50	H50	HE30
Cold Rolled Steel	✓	✓	✓		✓✓	
Glass						✓
Acrylic	✓	✓	✓		✓	✓
Stainless Steel		✓				✓
Polystyrene	✓✓✓	✓✓✓	✓✓✓		✓✓✓	✓✓
ABS	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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 Technical Data Collection Prior to 2014 03/03/2015

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

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

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

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

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