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

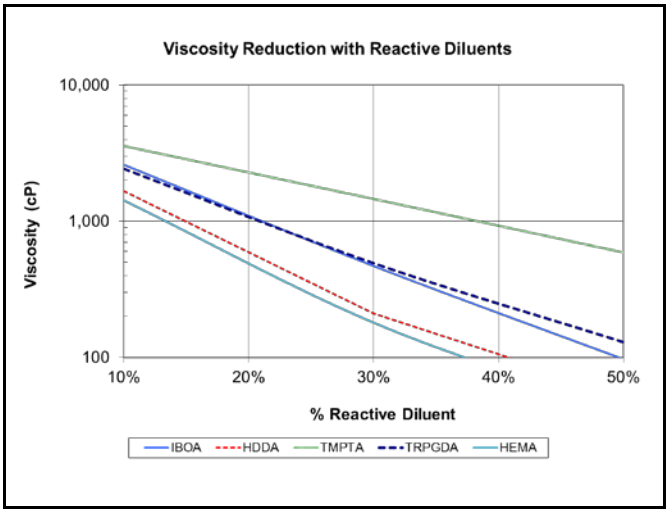
FEATURES

- 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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