

Bomar™ BR-202 Difunctional Aromatic Urethane Methacrylate Oligomer

APPLICATIONS

- Primer Coatings
- Interior Glass Coatings
- Electronics

FEATURES & BENEFITS

- High Bond Strength
- Exhibits Hydrolytic Stability
- Improves Adhesion

FEATURES & BENEFITS

- Low Color
- High Elongation

Bomar™ BR-202, an aromatic polyether urethane dimethacrylate, finds use in a diverse number of UV coating applications. BR-202 is valued for its strong bond strength, its affinity for glass, steel, and a variety of plastic substrates, and for its excellent elongation. BR-202 is also of value for its low initial color (despite its aromatic nature).

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	100,000
Pt-Co (APHA) Color	10
Refractive Index (25°C)	1.492
Density, g/cm ³ (25°C)	1.10

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-202	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	3,000	370	2,085	460	200

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

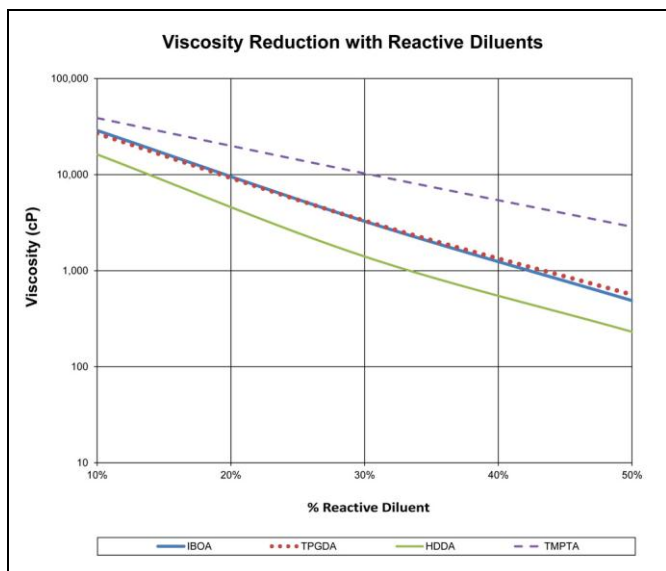
Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	1,800	1,320	Not Tested	775	755
Elongation, %**	75	73.5		9	2.5
Elastic Modulus, ksi**	0.72	56		15.3	47.8
Durometer Hardness	66D	46D	72D	54D	48D
MEK Double Rubs (#)	5	5	>200	50	>200
T _g (DMA) = 32°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TM50	TP50	H50
Acrylic	✓✓	✓✓✓			✓✓✓
Aluminum	✓	✓✓✓			✓
Cold Rolled Steel		✓✓✓			✓✓✓
Glass	✓✓	✓✓✓			✓✓✓
HDPE		✓			
Polycarbonate	✓	✓	✓✓		✓✓✓
Stainless Steel	✓✓	✓✓✓			✓✓✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



Brookfield – CAP2000+ @ 25°C

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