

Bomar™ BR-302 Aromatic Difunctional Urethane Acrylate Oligomer

APPLICATIONS

- Interior Coatings
- Floor Coatings

FEATURES & BENEFITS

- Excellent Chemical Resistance
- Imparts Toughness
- Low Cost

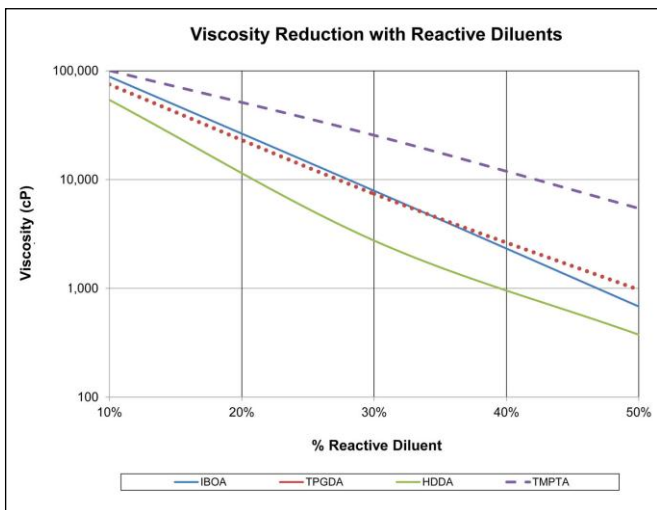
FEATURES & BENEFITS

- Gloss Finish
- Exhibits Hydrolytic Stability
- Improves Adhesion

Bomar™ BR-302 is a linear aromatic urethane diacrylate, typically used in coatings and adhesives applications where yellowing constraints are not present. The backbone and aromatic content of BR-302 offer excellent chemical resistance and toughness, combined in an affordable oligomer.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (50°C)	15,000
Pt-Co (APHA) Color	50
Refractive Index (25°C)	1.496
Density, g/cm ³ (25°C)	1.10



Brookfield – CAP2000+ @ 25 °C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-302	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	6,000	725	3,800	775	300

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	1,240	2,310	4,380	1,430	2,760
Elongation, %**	102.5	106	6	10.5	9.5
Elastic Modulus, ksi**	5.57	55.9	130.7	42.8	79.2
Durometer Hardness	41D	70D	85D	67D	73D
MEK Double Rubs (#)	10	6	>200	54	>200
T _g (DMA) = 11°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

ADHESION PROPERTIES

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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