

BOMAR® BR-204 Difunctional Aromatic Urethane Methacrylate Oligomer

APPLICATIONS

- Primer Coatings
- Glass Coatings

FEATURES & BENEFITS

- High Bond Strength
- Low Neat Viscosity
- Low Color

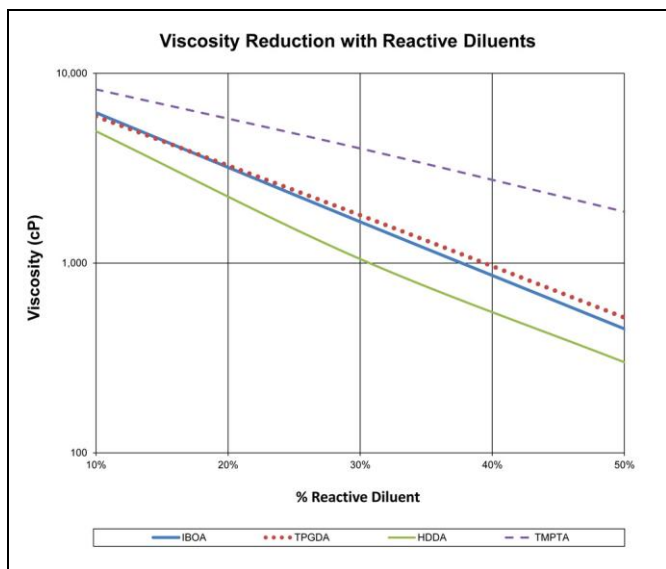
FEATURES & BENEFITS

- High Elongation
- Exhibits Hydrolytic Stability

BOMAR® BR-204, an aromatic polyether urethane dimethacrylate, finds use in a diverse number of UV adhesives applications. BR-204 is valued for its strong bond strength, its affinity for glass, steel, and a variety of plastic substrates, and for its excellent elongation. BR-204 is also of value for its low initial viscosity and low color (despite its aromatic nature).

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	15,000
Pt-Co (APHA) Color	10
Refractive Index (25°C)	1.466
Density, g/cm ³ (25°C)	1.11



Brookfield – CAP2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-204	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	1800	525	1905	600	325

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	500	282	Not Tested	482	507
Elongation, %**	160	341		7.0	2.5
Elastic Modulus, ksi**	0.1	0.33		21.7	43.0
Durometer Hardness	42A	44A	63D	40D	47D
MEK Double Rubs (#)	10	10	>200	60	180
T _g (DMA) = -43°C; Peak tan delta; cured with 2 phr of Irgacure®184					

** 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

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