

Bomar[®] BR-202 Difunctional Aromatic Polyether Urethane Methacrylate

APPLICATIONS

- Primer coatings
- Interior glass coatings
- Electronic adhesives

FEATURES

- High bond strength
- Exhibits hydrolytic stability
- Excellent adhesion to diverse substrates

FEATURES

- Low color
- High elongation

BR-202 is an aromatic polyether urethane dimethacrylate that 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	18
Refractive Index (25°C)	1.493
Density, g/cm ³ (25°C)	1.080

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50	HE30
Tensile Strength, psi**	1,700	2,500	2,900	2,200	2,500	1,400
Elongation, %**	110	110	2.7	15.0	6.0	95
Elastic Modulus, ksi**	7.2	75	130	45	70	20
Durometer Hardness	62D	76D	85D	75D	79D	70D
Water Absorption, % (24 hrs)	0.75	0.39	0.70	0.85	0.60	3.18
MEK Double Rubs (#)	20	7	>200	45	70	93
T _g (DMA) = 38°C; Peak tan delta; cured with 2 phr of Irgacure [®] 184						

** Per ASTM D882

ADHESION PROPERTIES

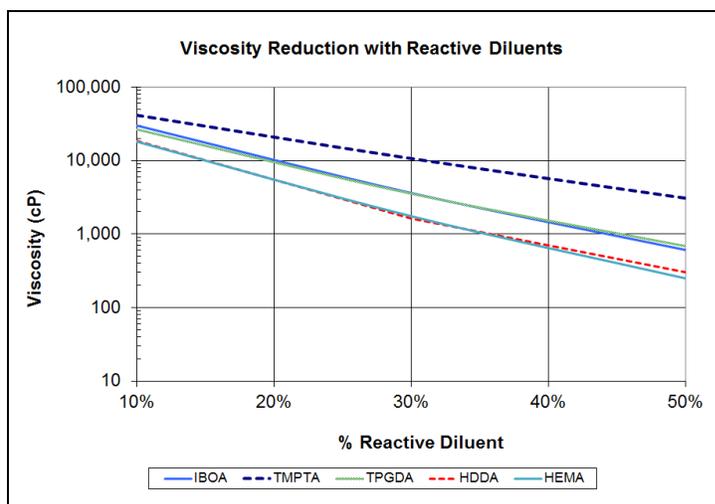
Substrate	I30	I50	TM50	TP50	H50	HE30
ABS	✓	✓✓	✓✓✓	✓	✓✓✓	✓✓
Aluminum	✓✓✓	✓✓✓				
Cold Rolled Steel	✓	✓✓✓			✓	✓✓
Glass	✓	✓✓✓				✓✓✓
HDPE						
PET	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓
PMMA	✓		✓✓✓	✓✓✓	✓✓✓	✓
Polycarbonate		✓	✓	✓✓✓	✓✓✓	✓
Polypropylene						
PVC	✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓
Stainless Steel	✓	✓✓✓		✓		✓✓✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50	HE30
BR-202	70	50	50	50	50	70
IBOA	30	50				
TMPTA			50			
TPGDA				50		
HDDA					50	
HEMA						30
Irgacure [®] 184	2	2	2	2	2	2
Viscosity, 25°C *	3,500	2,600	2,800	2,900	1,300	7,600

* Brookfield – CAP 2000+ @ 25°C.



Brookfield – CAP 2000+ @ 25°C

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