

Bomar™ BR-571MB Difunctional Aliphatic Urethane Methacrylate

APPLICATIONS

- Scratch Resistant Coatings
- Hard Glossy Coatings

FEATURES & BENEFITS

- Improves Adhesion
- Enhances Flexibility
- Provides Abrasion Resistance

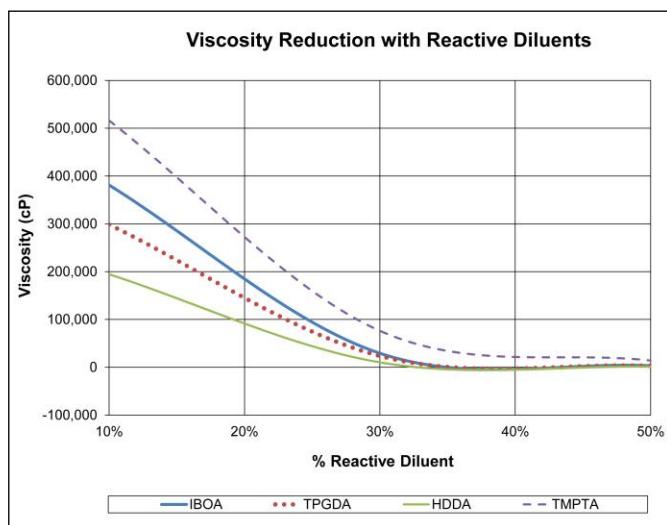
FEATURES & BENEFITS

- Provides Weatherability
- Low Yellowing
- Gloss Finish

Bomar™ BR-571MB, a difunctional, aliphatic polyether urethane methacrylate, is used for its desirable balance of toughness and flexibility and its ability to adhere to a variety of substrates. It is an excellent choice for impact-resistant coatings. BR-571MB also brings desirable weather resistance and low-yellowing properties to formulations utilizing it.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (50°C)	100,000
Pt-Co (APHA) Color	30
Refractive Index (25°C)	1.493
Density, g/cm ³ (25°C)	1.15



Brookfield – CAP2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	HE50	TM50	TP50	H50	I30
BR-571MB	50	50	50	50	70
HEMA	50				
TMPTA		50			
TPGDA			50		
HDDA				50	
IBOA					30
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	1,300	12,000	3,000	2,200	27,000

* Brookfield – Small Samples Adapter

FORMULATED PROPERTIES

Property	HE50	TM50	TP50	H50	I30
Tensile Strength, psi**	4,000	1,200	3,400	3,900	4,500
Elongation, %**	30	1	5	3	110
Elastic Modulus, ksi**	120	130	50	120	140
Durometer Hardness	82D	66D	75D	76D	74D
Pencil Hardness [‡]	HB	H	B	B	B
MEK Double Rubs (#)	14	>200	23	>200	22
T _g (DMA) = 50°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

‡ Per ASTM D3363

ADHESION PROPERTIES

Substrate	HE50	TM50	TP50	H50	I30
Aluminum	✓✓		✓		✓✓✓
Cold Rolled Steel	✓				✓
Glass	✓✓✓				✓✓✓
HDPE					
Polycarbonate		✓	✓	✓✓	✓
Stainless Steel					✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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