

Bomar™ BR-571 Difunctional Aliphatic Urethane Acrylate

APPLICATIONS

- Coatings for Wood
- Pigmented Coatings
- Rigid Plastic Topcoats

FEATURES & BENEFITS

- Improves Solvent Resistance
- Enhances Toughness
- Improves Weatherability
- Gloss Finish

FEATURES & BENEFITS

- Provides Hardness
- Exceptionally Low Color
- Exhibits Hydrolytic Stability

Bomar™ BR-571 is an aliphatic polyether urethane diacrylate with exceptionally low color. Based on a stable polyether backbone, BR-571 offers excellent physical properties in formulated films. While relatively high in neat viscosity, BR-571 reduces quickly with the addition of heat or monomer. Formulations using BR-571 often have a unique blend of toughness and flexibility.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (50°C)	100,000
Pt-Co (APHA) Color	10
Refractive Index (25°C)	1.493
Density, g/cm ³ (25°C)	1.15

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-571	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	30,000	3,000	12,500	2,700	1,500

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	3,600	3,470	3,435	2,090	2,930
Elongation, %**	115	40	3	14	6
Elastic Modulus, ksi**	32.5	75.5	257	62	74.5
Durometer Hardness	68D	81D	85D	74D	79D
Pencil Hardness [‡]	HB	2H	F	F	2H
MEK Double Rubs (#)	18	30	>200	30	>200

T_g (DMA) = 37°C; Peak tan delta: cured with 2 phr of Omnirad™ 481

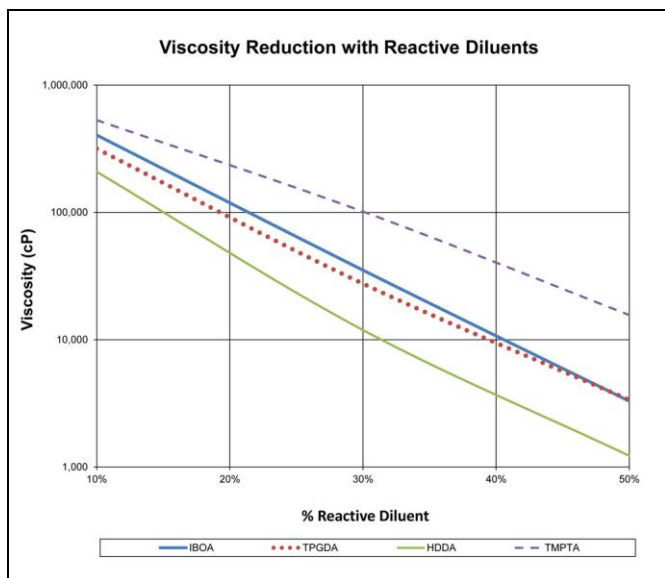
** Per ASTM D882

[‡] Per ASTM D3363

ADHESION PROPERTIES

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



Brookfield – CAP2000+ @ 25°C

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