

Bomar[®] BR-7432GI30 Aliphatic Polyester Urethane Acrylate

APPLICATIONS

- Coatings for Metal & Plastic
- Thermoforming Coatings & Inks
- Low Creep UV-PSA

FEATURES & BENEFITS

- Imparts Toughness
- High Tensile Strength
- Improves Impact Resistance

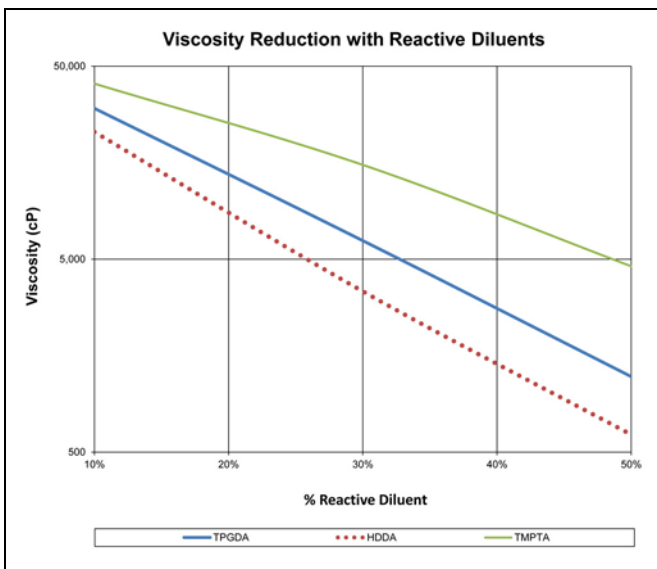
FEATURES & BENEFITS

- Adheres to Polymer Films
- Elastomeric
- Provides Abrasion Resistance

Bomar[®] BR-7432GI30, an aliphatic polyester urethane diacrylate, formulates into applications requiring adhesion to various substrates and applications where excellent toughness and flexibility are required. It is an excellent choice for impact and bend resistant coatings. BR-7432GI30 provides excellent balance of weathering, tensile, and adhesion properties.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	80,000
Pt-Co (APHA) Color	<100
Refractive Index (25°C)	1.484
Density, g/cm ³ (25°C)	1.10



Brookfield – CAP2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-7432GI30	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad [™] 481	2	2	2	2	2
Viscosity*	6100	N/A	4100	1100	500

* Brookfield – CAP2000+ at 25°C

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	2700	N/A	4200	2500	3200
Elongation, %**	260	N/A	5	20	12
Elastic Modulus, ksi**	2.1	N/A	90	30	50
Durometer Hardness	88A	N/A	83D	66	71
MEK Double Rubs (#)	20	N/A	130	30	30
T _g (DMA) = 28°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
ABS	✓✓✓		✓✓✓	✓✓✓	✓✓✓
Acrylic	✓✓✓			✓✓✓	✓✓✓
Aluminum	✓✓✓				
Cold Rolled Steel	✓✓✓			✓✓✓	
Glass	✓✓✓			✓✓✓	
HDPE					
Polycarbonate	✓✓✓			✓✓✓	✓✓✓
Stainless Steel	✓✓✓			✓✓✓	

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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Technical Data Collection Prior to 2008

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