

BOMAR™ BR-372 Difunctional Aliphatic Urethane Acrylate

APPLICATIONS

- Plastic Coatings
- Wood Coatings
- Fiberglass Composites

FEATURES

- Enhances Flexibility
- Low Color

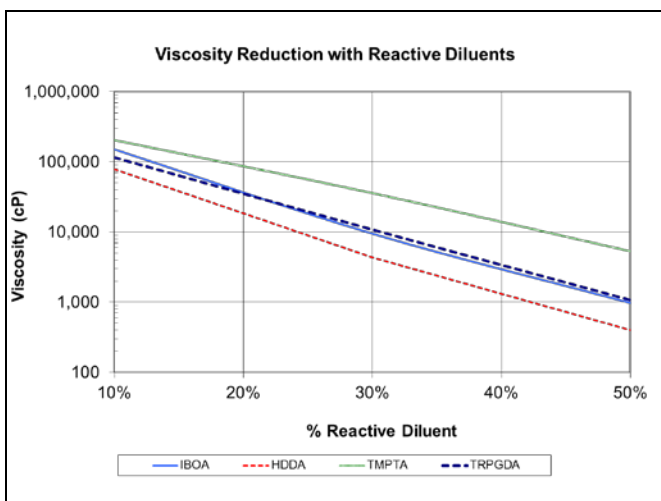
FEATURES

- Increases Hardness
- Improves Adhesion
- Low Skin Sensitivity

BOMAR™ BR-372, a medium molecular weight, di-functional, aliphatic polyether urethane acrylate oligomer, is a material offering a balance of toughness and flexibility, with very low color. Formulations with BR-372 yield high clarity films with adhesion to a variety of plastics, and can also be used in the manufacture of UV-curable fiberglass matrix resins. This material has low skin sensitivity for dental and cosmetic applications.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (50°C)	20,000
Pt-Co (APHA) Color	<50
Refractive Index (25°C)	1.4
Density, g/cm ³ (25°C)	1.10



Brookfield – CAP 2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-372	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C *	9,500	975	5,350	1,075	400

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	2,245	2,612	3,964	1,767	2,710
Elongation, %**	91.5	82.5	5	13	9
Elastic Modulus, ksi**	25.2	79.7	119.5	62.0	80.1
Durometer Hardness	65D	75D	85D	69D	76D
MEK Double Rubs (#)	7	8	>200	76	>200
T _g (DMA) = 36°C; Peak tan delta; cured with 2 phr of Irgacure® 481					

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TM50	TP50	H50
ABS				✓✓	✓✓✓
Acrylic (PMMA)	✓			✓	✓✓✓
Aluminum	✓✓	✓✓			
Cold Rolled Steel	✓	✓			
Glass	✓	✓			
HDPE					
Polycarbonate				✓✓	✓✓✓
Stainless Steel	✓✓	✓✓✓			

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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