

## BOMAR® BR-371S

### Difunctional Aliphatic Urethane Acrylate Oligomer

**APPLICATIONS**

- Wood Coatings
- Pigmented Coatings
- Rigid Plastic Coatings

**FEATURES & BENEFITS**

- High Tensile Strength
- Non-Yellowing
- Improves Weatherability

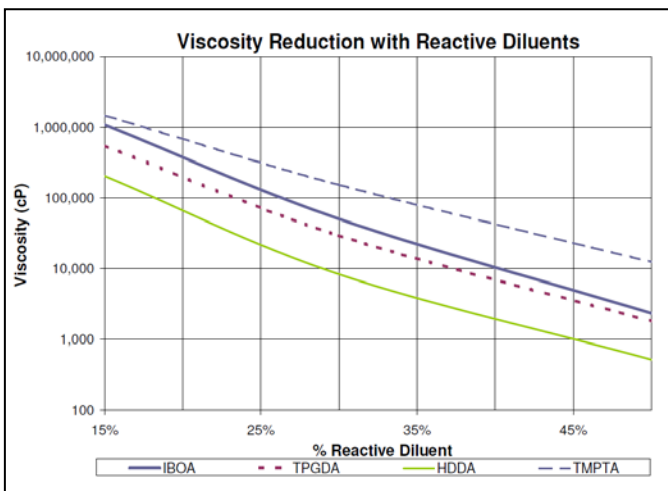
**FEATURES & BENEFITS**

- Imparts Superior Hardness and Scratch Resistance

BOMAR® BR-371S, a low molecular weight, difunctional, aliphatic polyether urethane acrylate oligomer, is a great fit for coatings that require high tensile strength, superior hardness, scratch resistance, and weathering resistance. Formulations with BR-371S yield hard, clear, non-yellowing films.

**UNCURED PROPERTIES**

Property	Value
Viscosity, cP (75°C)	12,000
Pt-Co (APHA) Color	<50
Refractive Index (25°C)	1.497
Density, g/cm <sup>3</sup> (25°C)	1.10



Brookfield – CAP2000+ @ 25°C

**TYPICAL FORMULATIONS**

Test Formulation Name	I30	TP50
BR-371S	70	50
IBOA	30	
TMPTA		
TPGDA		50
HDDA		
Omnirad™ 481	2	2
Viscosity, 25°C*	42,000	1,600

\* Brookfield – Small Samples Adapter

**CURED MECHANICAL PROPERTIES**

Property	I30	TP50
Tensile Strength, psi**	6,700	4,900
Elongation, %**	10	6
Elastic Modulus, ksi**	180	120
Durometer Hardness	88D	86D
MEK Double Rubs (#)	>200	>200
T <sub>g</sub> (DMA) = 86°C; Peak tan delta; cured with 2 phr of Omnirad™ 481		

\*\* Per ASTM D882

**ADHESION PROPERTIES**

Substrate	I30	TP50
ABS	✓✓✓	✓✓✓
Acrylic (PMMA)		✓✓✓
Aluminum		
Glass		✓
Polycarbonate	✓✓	✓✓✓
Stainless Steel	✓	✓

✓ Recommended    ✓✓ Highly Recommended    ✓✓✓ Strongly Recommended

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