

## Bomar™ BR-374 Difunctional Aliphatic Urethane Acrylate Oligomer

### APPLICATIONS

- Peroxide-cured Roof Coatings
- Floor Coatings
- Laminating Adhesives

### FEATURES & BENEFITS

- Very Low Color
- Enhances Flexibility
- Exhibits Hydrolytic Stability
- Oil & Chemical Resistant

### FEATURES & BENEFITS

- Improves Adhesion
- Non-Yellowing
- Provides Weatherability

Bomar™ BR-374, a medium molecular weight, difunctional, aliphatic polyether urethane acrylate oligomer, is a material offering a balance of toughness and flexibility, with very low color. Formulations with BR-374 yield high clarity films or tie layers with adhesion to a variety of substrates, making it ideal for laminating applications.

### UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	35,000
Pt-Co (APHA) Color	<50
Refractive Index (25°C)	1.4
Density, g/cm <sup>3</sup> (25°C)	1.10

### TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-374	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	3,600	825	3,400	975	475

\* Brookfield – Small Samples Adapter

### CURED MECHANICAL PROPERTIES

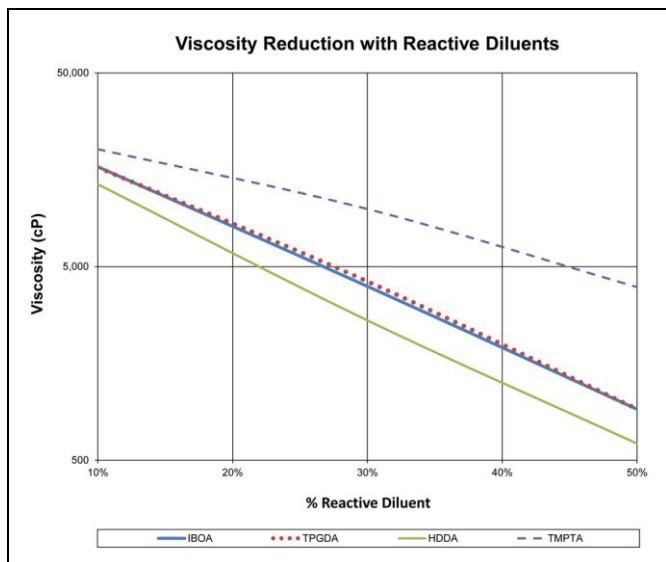
Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	576	1,404	1,362	974	856
Elongation, %**	285	427	4	21	5.5
Elastic Modulus, ksi**					
Durometer Hardness	49A	79A	68D	43D	53D
MEK Double Rubs (#)	4	3	141	24	44
T <sub>g</sub> (DMA) = -48°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

\*\* 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



Brookfield – CAP2000+ @ 25°C

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