

## BOMAR™ BR-3747AE Difunctional Aliphatic Urethane Acrylate

### APPLICATIONS

- Oligomer for Adhesion Promotion
- UV Pressure Sensitive Adhesives (PSAs)

### FEATURES & BENEFITS

- Enhances Flexibility
- Non-Yellowing
- Improves Adhesion

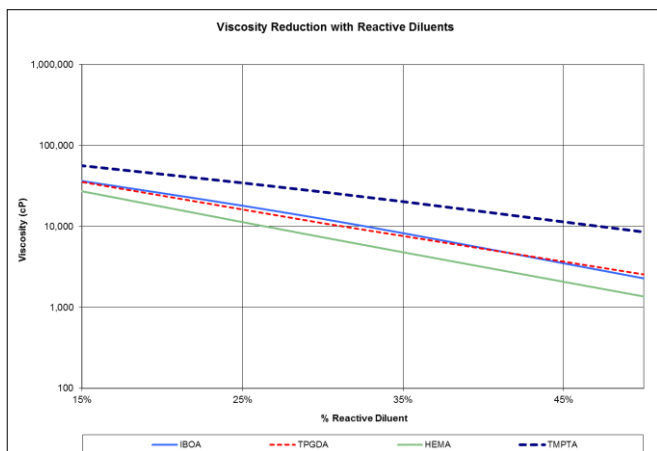
### FEATURES & BENEFITS

- Provides Toughness
- Adheres to a Wide Range of Substrates

BOMAR™ BR-3747AE is a difunctional, flexible, aliphatic polyether urethane acrylate. In addition to our typical substrates, BR-3747AE provides adhesion to variety of unusual substrates: polypropylene, high-density polyethylene (HDPE), and poly(vinyl chloride) (PVC). This unique product adheres well to a variety of metals, glass, and plastics. It is also an excellent candidate for consideration in UV light-curable PSA as a co-oligomer.

### UNCURED PROPERTIES

Property	Value
Viscosity, cP (50°C)	25,000
Pt-Co (APHA) Color	50
Refractive Index (25°C)	1.46
Density, g/cm <sup>3</sup> (25°C)	1.1



Brookfield – CAP2000+ @ 25°C

### TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TR50
BR-3747AE	70	50	50
IBOA	30	50	
TRPGDA			50
Omnirad™ 481	2	2	2
Viscosity, 25°C*	12,375	2,281	2,539

\* Brookfield – CAP2000+ @ 25°C

### CURED MECHANICAL PROPERTIES

Property	I30	I50	TR50
Tensile Strength, psi**	185	797	563
Elongation, %**	366	313	27
Elastic Modulus, ksi**	0.04	0.17	3.46
Durometer Hardness	40A	72A	40D
T <sub>g</sub> (DMA) = -42°C; Peak tan delta; cured with 2 phr of Omnirad™ 481			

\*\* Per ASTM D882

### ADHESION PROPERTIES

Substrate	I30	I50	TR50
Aluminum	✓	✓✓✓	
Cold Rolled Steel	✓	✓✓✓	
Stainless Steel	✓	✓✓✓	
Glass	✓	✓✓✓	✓
Polycarbonate	✓	✓✓✓	✓
ABS	✓	✓✓✓	✓
Acrylic (PMMA)	✓	✓✓✓	
HDPE		✓	
Polypropylene		✓✓✓	
PVC	✓	✓✓✓	

✓ Recommended    ✓✓ Highly Recommended    ✓✓✓ Strongly Recommended

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