

## BOMAR™ BR-3641AJ

### 1.3 functional Polyether Urethane Acrylate

**APPLICATIONS**

- Pressure Sensitive Adhesives
- Adhesion Promoter
- Reactive Tackifier

**FEATURES**

- Optical Clarity
- Exhibits Hydrolytic Stability
- Resilience

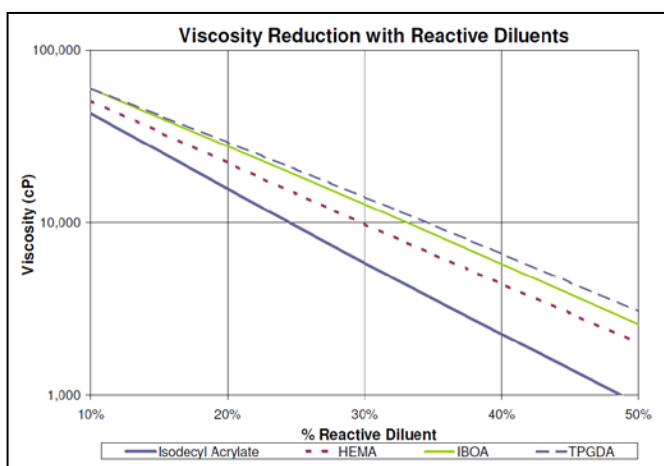
**FEATURES**

- Tenacious Adhesion
- Enhances Weatherability
- Non-Yellowing

BOMAR™ BR-3641AJ is an aliphatic polyether urethane acrylate with a high molecular weight and theoretical 1.3 functionality. Films formulated with BR-3641AJ are highly flexible, elastomeric, and tacky. It is excellent as an adhesion promoter or reactive tackifier. It is a perfect choice for optically clear UV-PSAs.

**UNCURED PROPERTIES**

Property	Value
Viscosity, cP (60°C)	10,000
Pt-Co (APHA) Color	<100
Refractive Index (22°C)	1.46
Density, g/cm <sup>3</sup> (25°C)	1.06



Brookfield –CAP2000+ @25 °C

**TYPICAL FORMULATIONS**

Test Formulation Name	I30	I50	TP50	H50
BR-3641AJ	70	50	70	50
IBOA	30	50		
2-PEA			30	
HDDA				50
TMPTA				
Omnirad™ 481	2	2	2	2
Viscosity, 25°C <sup>^</sup>	9,500	2000	2,400	1,500

<sup>^</sup> Brookfield –CAP2000+ @25 °C

**CURED MECHANICAL PROPERTIES**

Property	I30	I50	TP50	H50
Tensile Strength, psi	240	640	540	560
Elongation, %	2,900	4,600	13	9
Elastic Modulus, ksi	0.01	0.3	19	17
Durometer Hardness	<10A	72A	25D	26D
MEK Double Rubs (#)	18	20	10	10

T<sub>g</sub> (DMA) = -50°C; Peak tan delta; cured with 2 phr of Irgacure® 481

**FORMULATED ADHESION**

Substrate	I30	I50	TP50	H50
ABS	✓	✓	✓✓	✓✓
Acrylic				
Aluminum	✓	✓✓		
Cold Rolled Steel	✓	✓✓✓		
Glass	✓	✓✓✓		
HDPE	✓✓	✓✓✓		
Mylar		✓✓	✓✓	✓✓
Nylon		✓	✓	✓
Polycarbonate	✓	✓✓		
Polystyrene		✓	✓✓✓	✓✓✓
PVC		✓✓	✓✓✓	✓✓✓
Stainless Steel	✓✓	✓✓		

✓ Recommended    ✓✓ Highly Recommended    ✓✓✓ Strongly Recommended

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