

BR-3741AJ Product Data Sheet

Bomar™ BR-3741AJ 1.3 functional Polyether Urethane Acrylate

APPLICATIONS

- Reactive Tackifier
- **Pressure Sensitive Adhesives**
- **Adhesion Promoter**

FEATURES

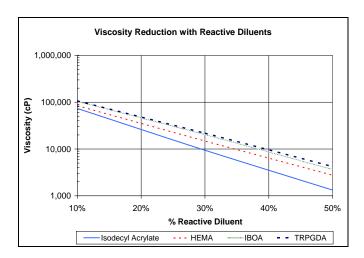
- **Enhances Flexibility**
- Non-Yellowing
- **Optically Clear**
- Oil & Chemical Resistant

FEATURES

- **Provides Softness**
- Adheres to a Wide Range of **Substrates**
- **Exhibits Hydrolytic Stability**

Bomar™ BR-3741AJ is an aliphatic 1.3 acrylate functional polyether urethane. The extremely elongative nature of BR-3741AJ makes it an excellent candidate for consideration in UV light-curable PSAs as a reactive tackifier. It is also used as a co-oligomer for adhesion promotion in coatings. Films formulated with BR-3741AJ are highly flexible, elastomeric, and tacky. This oligomer is an excellent adhesion promoter, and compared to other reactive tackifiers it results in relatively tougher films. It is a perfect choice for optically clear UV pressure-sensitive adhesives (PSAs).

UNCURED PROPERTIES				
Property	Value			
Viscosity, cP (60°C)	25,000			
Pt-Co (APHA) Color	<75			
Refractive Index (25°C)	1.459			
Density, g/cm³ (25°C)	1.01			



Brookfield - CAP2000+ @ 25°C

TYPICAL FORMULATIONS					
Test Formulation Name	130	150	TH50	TP50	H50
BR-3741AJ	70	50	50	50	50
IBOA	30	50			
THFA			50		
TRPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	25,000	4,500	2,500	3,500	6,000

Brookfield - Small Samples Adapter

CURED MECHANICAL PROPERTIES					
Property	130	150	TH50	TP50	H50
Tensile Strength, psi**	400	900	100	1200	1000
Elongation, %**	1,000	4,000	500	50	40
Elastic Modulus, ksi**	0.04	0.03	0.03	4.0	5.0
Durometer Hardness	34A	65A	15A	35D	40D
T _a (DMA) = -50°C: Peak tan delta; cured with 2 phr of Irgacure [®] 481					

Per ASTM D882

ADHESION PROPERTIES					
Substrate	130	150	TH50	TR50	H50
Aluminum	11	111	✓		
Cold Rolled Steel	11	111	44	11	✓
Glass	11	11	✓		
HDPE	✓	✓	✓		
Polycarbonate	11	111	1	✓	✓
Stainless Steel	111	111	11	✓	

✓✓✓ Strongly Recommended ✓ Recommended ✓✓ Highly Recommended

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