

Bomar[®] BR-3741 Polyether Urethane Acrylate

APPLICATIONS

- Roof Coatings
- Floor Coatings

FEATURES

- Very Low Color
- Non-Yellowing
- Imparts Flexibility

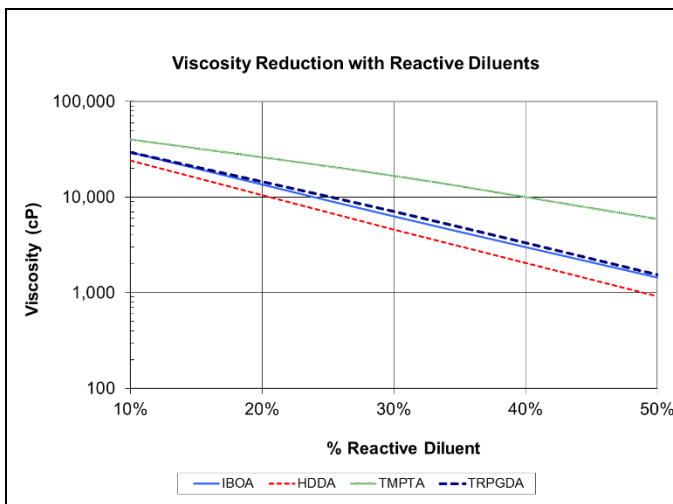
FEATURES

- Provides Weatherability
- Promotes Abrasion Resistance
- Enhances Impact Resistance

Bomar[®] BR-3741, a high molecular weight, difunctional, aliphatic polyether urethane acrylate, is an ideal choice for coatings applications which require flexibility, softness, and non-yellowing characteristics. Coatings formulated with Bomar[®] BR-3741 will be of moderate viscosity and be resistant to weathering, abrasion and physical impact.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	60,000
Pt-Co (APHA) Color or Gardner Color	15
Refractive Index (25°C)	1.46
Density, g/cm ³ (25°C)	1.0



Brookfield – CAP 2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TP50	TM50	H50
BR-3741	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Irgacure [®] 184	2	2	2	2	2
Viscosity, 25°C *	6,297	1,444	1,538	5,938	925

* Brookfield – CAP 2000+ @ 25°C

CURED MECHANICAL PROPERTIES

Property	I30	I50	TP50	TM50	H50
Tensile Strength, psi**	51	379	776	921	783
Elongation, %**	152	361	21	3	11
Elastic Modulus, ksi**	0.1	6.9	18	42	17
Durometer Hardness	36A	69A	37D	60D	35D
Water Absorption, % (24 hrs)	1.18	0.73	1.44	1.60	1.26
MEK Double Rubs (#)	2	3	2	11	4
T _g (DMA) = -51°C; Peak tan delta; cured with 2 phr of Irgacure [®] 184					

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TP50	TM50	H50
Aluminum		✓			
Cold Rolled Steel		✓✓			
Glass		✓			
HDPE					
PMMA		✓			
Polycarbonate		✓			
Stainless Steel		✓			

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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