

BOMAR™ XR-145S Trifunctional Aliphatic Urethane Acrylate

APPLICATIONS

- Coatings for Glass
- Primer Coatings

FEATURES & BENEFITS

- Low Viscosity
- Increases Impact Resistance

FEATURES & BENEFITS

- Low Color/Non-Yellowing
- Low Skin Irritation

BOMAR™ XR-145S, a high molecular weight, trifunctional, aliphatic polyether urethane methacrylate, provides low formulation viscosity and moderate elongation with non-yellowing properties. XR-145S shows adhesion to a variety of substrates, making it a candidate for consideration in mixed surface adhesion applications.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	67,000
PT-Co (APHA) Color	<50
Refractive Index (25°C)	1.468
Density, g/cm ³ (25°C)	1.10

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
XR-145S	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	3,620	630	3,220	510	280

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

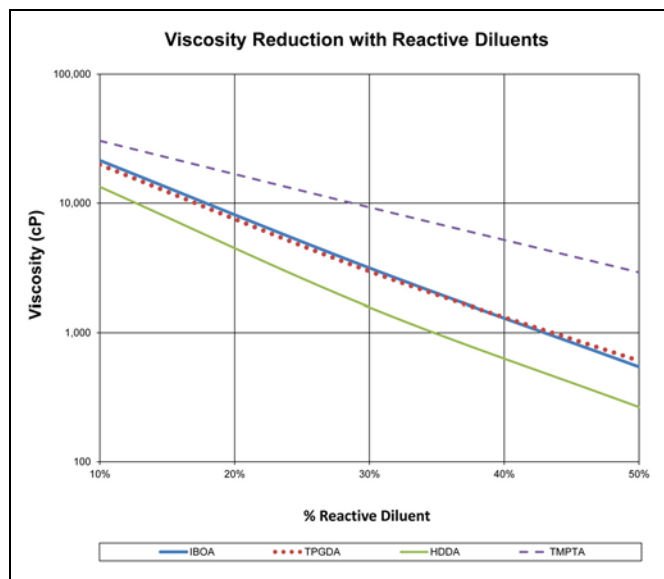
Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	2,700	2,200	3,600	3,000	2,400
Elongation, %**	140	100	4	10	5
Elastic Modulus, ksi**	5	50	140	150	80
Durometer Hardness	43D	57D	86D	75D	73D
MEK Double Rubs (#)	40	25	>200	30	30
T _g (DMA) = 63°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TM50	TP50	H50
Acrylic	✓✓✓	✓✓✓		✓✓✓	✓✓✓
Glass	✓✓✓	✓✓✓			
HDPE					
Steel	✓✓	✓✓✓			✓✓✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



Brookfield – CAP2000 + @ 25°C

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