

BOMAR™ XR-741MS

Difunctional Aliphatic Urethane Methacrylate Oligomer

APPLICATIONS

- Coatings for Metal
- Coatings for Plastics

FEATURES & BENEFITS

- Improves Adhesion
- Enhances Hardness

FEATURES & BENEFITS

- Low Skin Irritation
- Non-Yellowing
- Low Skin Sensitivity

BOMAR™ XR-741MS, a low molecular weight, difunctional, aliphatic polyester urethane methacrylate, can be effectively formulated for adhesion to steel, aluminum, and various plastics. The resulting hard, tough film makes an effective, non-yellowing protective coating. This material has low skin sensitivity for dental and cosmetic applications.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (75°C)	8,000
Pt-Co (APHA) Color	50
Refractive Index (25°C)	1.489
Density, g/cm ³ (25°C)	1.09

TYPICAL FORMULATIONS

Test Formulation Name	I30	TP50
XR-741MS	70	50
IBOA	30	
TMPTA		
TPGDA		50
HDDA		
Omnirad™ 481	2	2
Viscosity, 25°C*	19,000	900

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

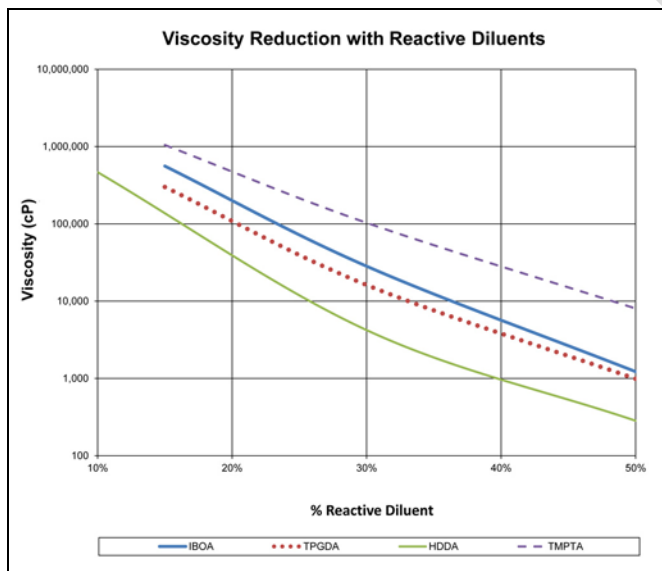
Property	I30	TP50
Tensile Strength, psi**	7,200	7,393
Elongation, %**	6	3
Elastic Modulus, ksi**	220	336
Durometer Hardness	90D	83D
MEK Double Rubs (#)	>200	>200
T _g (DMA) = 110°C; Peak tan delta; cured with 2 phr of Omnirad™ 481		

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	TP50
Aluminum	✓✓✓	✓
Cold Rolled Steel	✓✓	✓
Glass	✓	✓
HDPE		
Polycarbonate	✓✓	✓✓✓
Stainless Steel	✓	✓

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



Brookfield – CAP2000 + @ 25°C

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