

BOMAR™ XR-9416

Water-Dilutable Aliphatic Urethane Acrylate Oligomer

APPLICATIONS

- Waterborne Coatings for Concrete
- Waterborne Coatings for Wood
- Anti-Fog Coatings

FEATURES & BENEFITS

- Provides Strength
- Enhances Crosslink Density
- Imparts Hardness

FEATURES & BENEFITS

- Non-Yellowing
- Exhibits Water Solubility
- Excellent Chemical Resistance

BOMAR™ XR-9416 is a water-dilutable aliphatic urethane acrylate, used for tough and flexible coatings with excellent chemical resistance. XR-9416 contains no water, but is infinitely dilutable with D.I. water.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	7,000
APHA Color	50
Refractive Index (25°C)	1.492
Density, g/cm ³ (25°C)	1.20

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50
XR-9416	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	600	175	725	150	125

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES

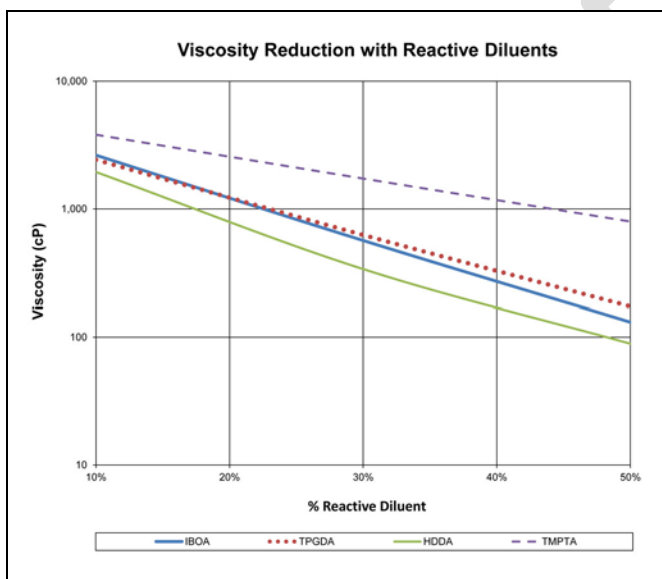
Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi	2980	5160	Not Tested	4240	Not Tested
Elongation, %**	2.5	4		4	
Elastic Modulus, ksi**	117	155.6		124.3	
Durometer Hardness	82D	84D	86D	82D	78D
MEK Double Rubs (#)	200	142	200	200	185
T _g (DMA) = 65°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

ADHESION PROPERTIES

Substrate	I30	I50	TM50	TP50*	H50*
ABS	✓✓✓	✓✓✓	✓✓✓		✓✓✓
Acrylic	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Aluminum		✓✓✓			
Cold Rolled Steel		✓✓			
Glass		✓✓✓			
HDPE					
Polycarbonate					
Stainless Steel	✓✓	✓✓✓			

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



Brookfield – CAP2000+ @ 25°C

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