Bomar™ BR-582H15
Aliphatic Polyether Urethane Acrylate Oligomer

APPLICATIONS

- Coatings for Plastic
- Coatings for Metal

FEATURES & BENEFITS

- Develops Impact Resistance
- Enhances Flexibility
- Exhibits Hydrolytic Stability
- Provides Weatherability

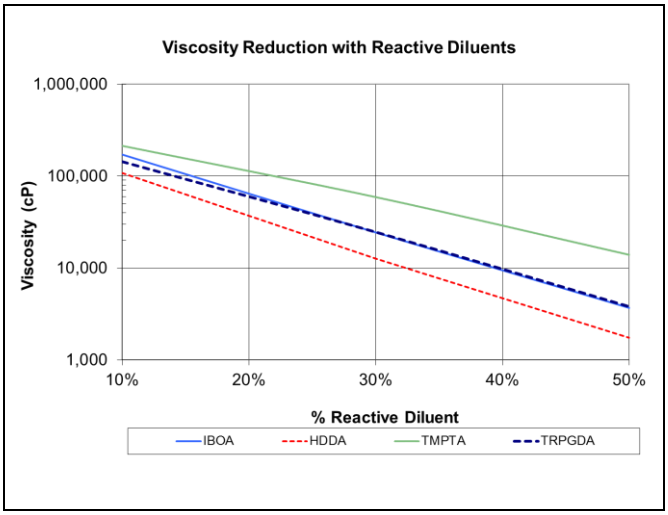
FEATURES & BENEFITS

- Imparts Toughness
- Excellent Tensile Strength
- Oil & Chemical Resistant
- Gloss Finish

Bomar™ BR-582H15 is an aliphatic polyether urethane acrylate which imparts toughness and impact resistance. This oligomer is highly recommended for use in plastic and metal coatings. It is an excellent choice for applications that require oil and chemical resistance. BR-582H15 also has high Durometer hardness, which makes tough, hard coatings for outdoor applications.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (50°C)	38,000
Pt-Co (APHA) Color or Gardner Color	20
Refractive Index (25°C)	1.04
Density, g/cm^3 (25°C)	1.487



Brookfield – CAP 2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TP50	TM50	H50
BR-582H15	70	50	50	50	50
IBOA	30	50			
TMPTA				50	
TPGDA			50		
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C *	24,375	3,675	3,800	13,875	1,750

* Brookfield – CAP 2000+ @ 25°C

CURED MECHANICAL PROPERTIES

Property	I30	I50	TP50	TM50	H50
Tensile Strength, psi**	2,800	3,300	3,000	4,700	2,700
Elongation, %**	65	60	15	5	5
Elastic Modulus, ksi**	7	60	50	100	70
Durometer Hardness	60D	70D	66D	80D	70D
Water Absorption (24 hrs)	0.5	0.3	0.7	0.7	0.6
MEK Double Rubs (#)	125	75	170	>200	140
T_g (DMA) = 17.5°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

ADHESION PROPERTIES

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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