

BR-344 Product Data Sheet

Bomar™ BR-344 Difunctional Aliphatic Urethane Acrylate Oligomer

APPLICATIONS

- Roof Coatings
- Floor Coatings

FEATURES & BENEFITS

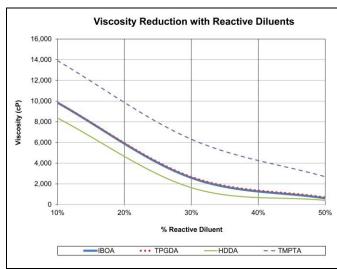
- Enhances Flexibility
- Develops Weatherability
- Gloss Finish
- Oil & Chemical Resistant

FEATURES & BENEFITS

- Non-Yellowing
- Promotes Abrasion Resistance
- Exhibits Hydrolytic Stability

BomarTM BR-344, a high molecular weight, difunctional, aliphatic polyether urethane acrylate oligomer, is a cost-effective choice for coatings formulations which require weathering durability and non-yellowing characteristics. Formulations with BR-344 result in flexible yet durable, abrasion resistant, non-yellowing systems of moderate- to low-viscosity.

UNCURED PROPERTIES				
Property	Value			
Viscosity, cP (25°C)	20,000			
Pt-Co (APHA) Color	16			
Refractive Index (25°C)	1.459			
Density, g/cm ³ (25°C)	1.10			



Brookfield -CAP2000+ @25 °C

TYPICAL FORMULATIONS					
Test Formulation Name	130	150	TM50	TP50	H50
BR-344	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	2,150	550	2,300	700	375

^{*} Brookfield - Small Samples Adapter

CURED MECHANICAL PROPERTIES					
Property	130	150	TM50	TP50	H50
Tensile Strength, psi**	120	1,044	1,319	829	883
Elongation, %**	110	527	4	13	6
Elastic Modulus, ksi**	0.11	0.93	47.8	17.5	26.4
Durometer Hardness	34A	53A	63D	38D	47D
MEK Double Rubs (#)	3	5	190	50	50
Tg (DMA) = -48°C : Peak tan delta: cured with 2 phr of Omnirad™ 481					

^{**} Per ASTM D882

Fer ASTM D3363

ADHESION PROPERTIES					
Substrate	130	150	TM50	TP50	H50
ABS		111	✓	✓	111
Acrylic		111	1	111	111
Aluminum		111			
Cold Rolled Steel	✓	11			✓
Glass	11	111			
HDPE		✓			
Polycarbonate		111		111	111
Stainless Steel	✓	111		1	

[✓] Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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