Bomar® BR-543
Aliphatic Urethane Acrylate

APPLICATIONS

- Foil Coatings
- Optical Coatings on Polycarbonate
- Weather-Resistant Coatings

FEATURES & BENEFITS

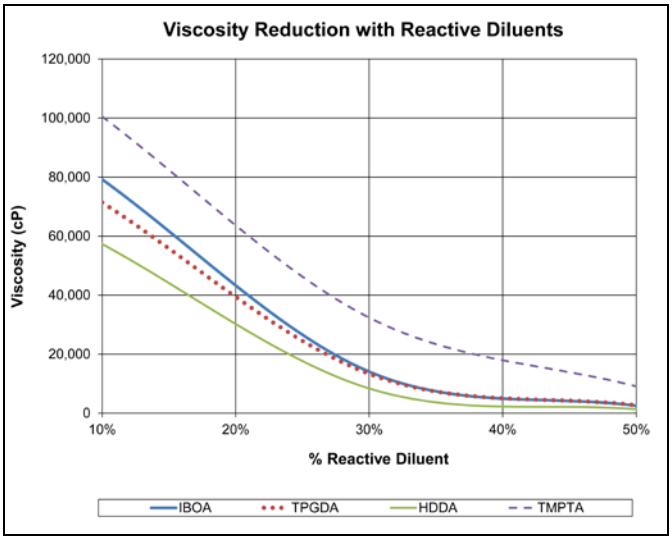
- Enhances Flexibility
- Abrasion Resistance
- Exhibits Hydrolytic Stability
- Provides Oil & Chemical Resistance

FEATURES & BENEFITS

- High Clarity
- High Tensile Strength
- Provides Excellent Weatherability

Bomar® BR-543 is a difunctional, aliphatic, polyether urethane acrylate. Films formulated with BR-543 exhibit superior physical and weathering capabilities. BR-543 may also be used to improve the flexibility, weathering, and adhesion characteristics of existing film and foil coatings.

UNCURED PROPERTIES	
Property	**Value**
Viscosity, cP (50°C)	30,000
Pt-Co (APHA) Color	25
Refractive Index (25°C)	1.475
Density, g/cm^3 (25°C)	1.17



Brookfield –CAP2000+ @ 25°C

TYPICAL FORMULATIONS					
Test Formulation Name	**I30**	**I50**	**TM50**	**TP50**	**H50**
BR-543	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	14,000	2,275	7,350	2,475	1,400

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES					
Property	**I30**	**I50**	**TM50**	**TP50**	**H50**
Tensile Strength, psi**	900	2,018	1,072	1,879	1,516
Elongation, %**	200	226	2	22	6
Elastic Modulus, ksi**	0.9	5.1	79.5	32.0	47.8
Durometer Hardness	77A	49D	76D	58D	55D
Pencil Hardness¥	3B	HB	2B	2B	4B
MEK Double Rubs (#)	5	3	50	15	35
T_g (DMA)* = -52°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

¥ Per ASTM D3363

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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