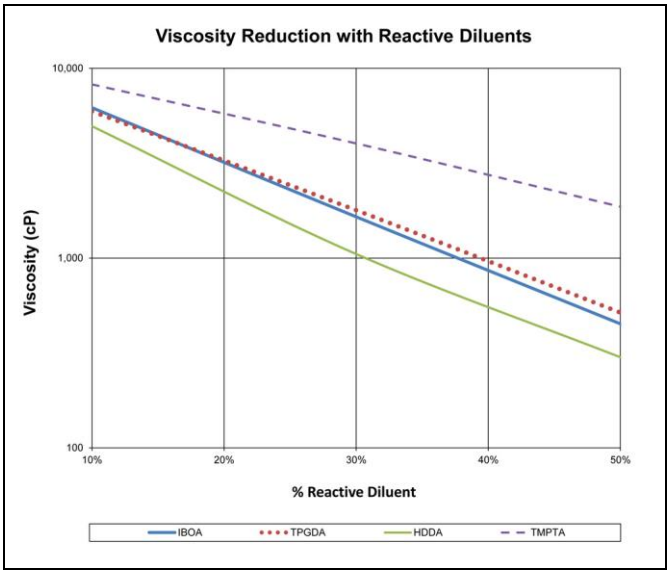
BOMAR® BR-204
Difunctional Aromatic Urethane Methacrylate Oligomer

APPLICATIONS	FEATURES & BENEFITS	FEATURES & BENEFITS
• Primer Coatings • Glass Coatings	• High Bond Strength • Low Neat Viscosity • Low Color	• High Elongation • Exhibits Hydrolytic Stability

BOMAR® BR-204, an aromatic polyether urethane dimethacrylate, finds use in a diverse number of UV adhesives applications. BR-204 is valued for its strong bond strength, its affinity for glass, steel, and a variety of plastic substrates, and for its excellent elongation. BR-204 is also of value for its low initial viscosity and low color (despite its aromatic nature).

UNCURED PROPERTIES	
Property	**Value**
Viscosity, cP (25°C)	15,000
Pt-Co (APHA) Color	10
Refractive Index (25°C)	1.466
Density, g/cm^3 (25°C)	1.11



Brookfield – CAP2000+ @ 25°C

TYPICAL FORMULATIONS					
Test Formulation Name	**I30**	**I50**	**TM50**	**TP50**	**H50**
BR-204	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity, 25°C*	1800	525	1905	600	325

* Brookfield – Small Samples Adapter

CURED MECHANICAL PROPERTIES					
Property	**I30**	**I50**	**TM50**	**TP50**	**H50**
Tensile Strength, psi**	500	282	Not Tested	482	507
Elongation, %**	160	341		7.0	2.5
Elastic Modulus, ksi**	0.1	0.33		21.7	43.0
Durometer Hardness	42A	44A	63D	40D	47D
MEK Double Rubs (#)	10	10	>200	60	180
T_g (DMA) = -43°C; Peak tan delta; cured with 2 phr of Irgacure®184					

** Per ASTM D882

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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