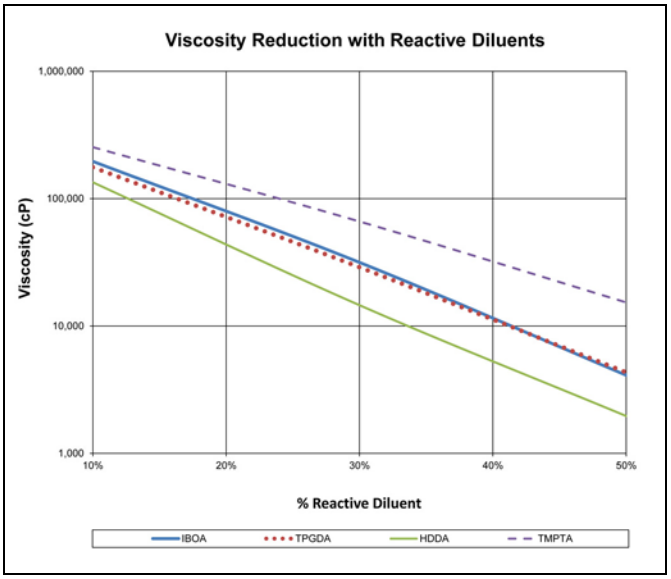
Bomar® BR-582E8
Aliphatic Polyether Urethane Acrylate Oligomer

APPLICATIONS	FEATURES & BENEFITS	FEATURES & BENEFITS
• Coatings for Plastic • Coatings for Metal	• Develops Impact Resistance • Enhances Flexibility • Exhibits Hydrolytic Stability • Provides Weatherability	• Imparts Toughness • Great Tensile Strength • Gloss Finish

Bomar® BR-582E8 is an aliphatic polyether urethane acrylate which provides a balance of toughness and flexibility. This oligomer is highly recommended for use in single-coat, flexible coatings on metal and plastic substrates. It is an excellent choice for impact and bend resistant coatings. BR-582E8 also brings desirable weather resistance and low-yellowing properties to formulations utilizing it.

UNCURED PROPERTIES	
Property	**Value**
Viscosity, cP (50°C)	60,000
Pt-Co (APHA) Color	<50
Refractive Index (25°C)	1.476
Density, g/cm^3 (25°C)	1.14



Brookfield – CAP2000+ @ 25°C

TYPICAL FORMULATIONS					
Test Formulation Name	**I30**	**I50**	**TM50**	**TP50**	**H50**
BR-582E8	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad™ 481	2	2	2	2	2
Viscosity*	25000	3400	12500	2900	1500

* Brookfield – CAP2000+ at 25°C

CURED MECHANICAL PROPERTIES					
Property	**I30**	**I50**	**TM50**	**TP50**	**H50**
Tensile Strength, psi**	2600	3400	3600	2500	2800
Elongation, %**	180	200	5	23	12
Elastic Modulus, ksi**	1.3	4.6	93	24	40
Durometer Hardness	85A	56D	78D	64D	65D
MEK Double Rubs (#)	40	60	200	30	30
T_g (DMA) = 23°C; Peak tan delta; cured with 2 phr of Omnirad™ 481					

** Per ASTM D882

¥ Per ASTM D3363

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

Dymax Corporation
860.482.1010
info@dymax.com
www.dymax.com

Dymax Oligomers &Coatings
860.626.7006
oligomers&coatings@dymax.com
www.dymax-oc.com

Dymax Europe GmbH
+49 (0) 611.962.7900
info_de@dymax.com
www.dymax.de

Dymax UV Adhesives & Equipment (Shenzhen) Co Ltd
+86.755.83485759
dymaxasia@dymax.com
www.dymax.com.cn

Dymax UV Adhesives & Equipment (Shanghai) Co Ltd
+86.21.37285759
dymaxasia@dymax.com
www.dymax.com.cn

Dymax Asia (H.K.) Limited
+852.2460.7038
dymaxasia@dymax.com
www.dymax.com.cn

Dymax Korea LLC
82.2.784.3434
info@dymax.kr
www.dymax.com/kr