

Bomar[®] BR-144H15 Trifunctional Aliphatic Polyether Urethane Acrylate

APPLICATIONS

- Wood Coatings
- Graphic Arts
- Hydrolytically Stable Coatings

FEATURES

- Rapid Cure Speed
- Exhibits Hydrolytic Stability
- Low Color/Non-Yellowing

FEATURES

- High Gloss
- Enhances Weatherability
- Improves Abrasion Resistance

BR-144H15 is a trifunctional polyether urethane acrylate with excellent weatherability properties, fast cure speeds, and abrasion and solvent resistance. BR-144H15 is suitable for abrasion resistant wood coatings, hydrolytically stable inks, and coatings.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (25°C)	65,000
Pt-Co (APHA) Color	25
Refractive Index (25°C)	1.480
Density, g/cm ³ (25°C)	1.070

CURED MECHANICAL PROPERTIES

Property	I30	I50	TM50	TP50	H50	HE30
Tensile Strength, psi**	4,500	7,400	6,900	5,400	6,000	4,100
Elongation, %**	9.5	4.5	2.0	10.0	6.5	25
Elastic Modulus, ksi**	240	340	370	240	220	200
Durometer Hardness	87D	88D	92D	86D	87D	55D
Water Absorption, % (24 hrs)	0.35	0.25	0.38	0.45	0.31	1.46
MEK Double Rubs (#)	55	49	>200	>200	190	32

T_g (DMA) = 70°C; Peak tan delta; cured with 2 phr of Irgacure[®] 184

** Per ASTM D882

ADHESION PROPERTIES

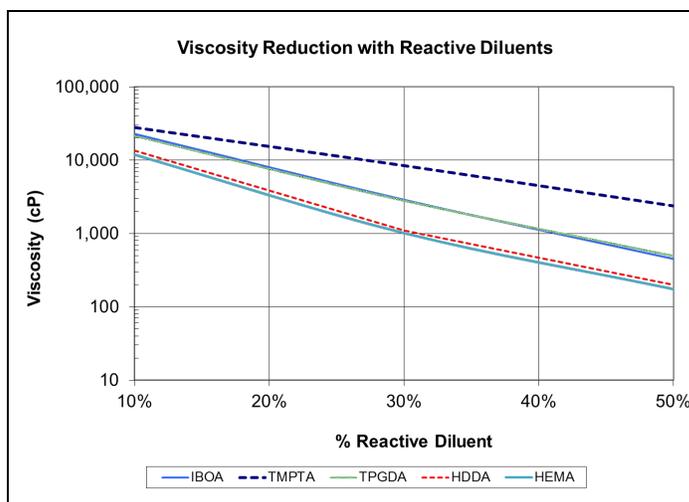
Substrate	I30	I50	TM50	TP50	H50	HE30
ABS			✓✓✓		✓	
Aluminum						
Cold Rolled Steel		✓		✓		✓
Glass						✓
HDPE						
PET	✓	✓✓	✓	✓	✓✓	✓✓✓
PMMA			✓✓✓		✓✓✓	✓
Polycarbonate	✓	✓		✓	✓	
Polypropylene						
PVC		✓				✓
Stainless Steel						

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TM50	TP50	H50	HE30
BR-144H15	70	50	50	50	50	70
IBOA	30	50				
TMPTA			50			
TPGDA				50		
HDDA					50	
HEMA						30
Irgacure [®] 184	2	2	2	2	2	2
Viscosity, 25°C *	2,900	500	2,400	500	200	1,000

* Brookfield – CAP 2000+ @ 25°C.



Brookfield – CAP 2000+ @ 25°C

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Dymax Corporation
+1.860.482.1010 | info@dyamax.com | www.dyamax.com

Dymax Europe GmbH
+49 611.962.7900 | info_de@dyamax.com | www.dyamax.de

Dymax Engineering Adhesives Ireland Ltd.
+353 21.237.3016 | info_ie@dyamax.com | www.dyamax.ie

Dymax Oligomers & Coatings
+1.860.626.7006 | info_oc@dyamax.com | www.dyamax-oc.com

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

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

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

Dymax Asia Pacific Pte. Ltd.
+65.6752.2887 | info_ap@dyamax.com | www.dyamax-ap.com

Dymax Korea LLC
+82.2.784.3434 | info_kr@dyamax.com | www.dyamax.com/kr

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