

Bomar™ BR-744SD Polyester Urethane Acrylate

APPLICATIONS

- Pressure Sensitive Adhesives
- Metal and Plastic Coatings
- Electronics
- Inks

FEATURES

- Excellent Adhesion to Various Substrates
- Excellent Flexibility
- Excellent Tensile Strength

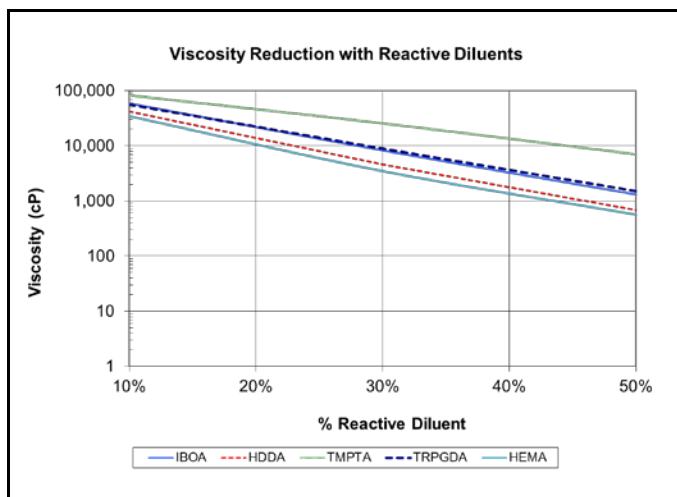
FEATURES

- Highly Elastomeric
- Excellent Reactive Tackifier
- Excellent Optical Clarity

Bomar™ BR-744SD is a difunctional, aliphatic polyester urethane acrylate offering excellent adhesion, flexibility, and tensile strength. It can be effectively formulated for adhesion to steel, aluminum, and various plastics. Products formulated with BR-744SD can be highly flexible, elastomeric, and tacky. It is excellent as an adhesion promoter or reactive tackifier, and is a perfect choice for optically clear UV-PSAs.

UNCURED PROPERTIES

Property	Value
Viscosity, cP (60°C)	7,000
Pt-Co (APHA) Color or Gardner Color	35
Refractive Index (25°C)	1.474
Density, g/cm ³ (25°C)	1.11



Brookfield – CAP 2000+ @ 25°C

TYPICAL FORMULATIONS

Test Formulation Name	I30	I50	TP50	TM50	H50	HE30
BR-744SD	70	50	50	50	50	50
IBOA	30	50				
TMPTA				50		
TPGDA			50			
HDDA					50	
HEMA						50
Omnirad™ 481	2	2	2	2	2	2
Viscosity, 25°C *	8,250	1,300	1,500	7,000	690	560

* Brookfield – CAP 2000+ @ 25°C

CURED MECHANICAL PROPERTIES

Property	I30	I50	TP50	TM50	H50	HE30
Tensile Strength, psi**	1,430	3,510	2,610	3,780	2,550	1,720
Elongation, %**	321	355	27	5.4	12	253
Elastic Modulus, ksi**	0.45	1.42	16.8	88.4	35.6	0.86
Durometer Hardness	65A	48D	55D	80D	61D	82A
Water Absorption, % (24 hrs)	0.51	0.31	0.73	0.64	0.55	4.66
MEK Double Rubs (#)	37	28	62	>200	40	30

 T_g (DMA) = -9°C; Peak tan delta; cured with 2 phr of Irgacure® 481

** Per ASTM D882

ADHESION PROPERTIES

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

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

© 2015 Dymax Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by Dymax Corporation, U.S.A. Irgacure® is a trademark of BASF Corporation. Technical data provided is of a general nature and is based on laboratory test conditions. Dymax does not warrant the data contained in this bulletin. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website at www.dymax.com/pdf/Conditions_of_Sale.pdf. Dymax does not assume responsibility for test or performance results obtained by users. It is the user's responsibility to determine the suitability for the product application and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this communication shall act as a representation that the product use or application will not infringe on a patent owned by someone other than Dymax or act as a grant of license under any Dymax Corporation Patent. Dymax recommends that each user adequately test its proposed use and application before actual repetitive use, using the data in this communication as a general guideline. 11/13/2015

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

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

 Dymax Engineering Adhesives Ireland Ltd.
 +353 1.231.4696 | info_ie@dymax.com | www.dymax.ie

 Dymax Oligomers & Coatings
 860.626.7006 | info_oc@dymax.com | www.dymax-oc.com

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

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

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

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

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