

## Bomar<sup>®</sup> BR-7432GB Aliphatic Difunctional Urethane Acrylate Oligomer

**APPLICATIONS**

- Coatings
- Thermoforming Coatings & Inks
- Low Creep UV-PSA

**FEATURES & BENEFITS**

- Imparts Toughness
- High Tensile Strength
- Impact Resistance

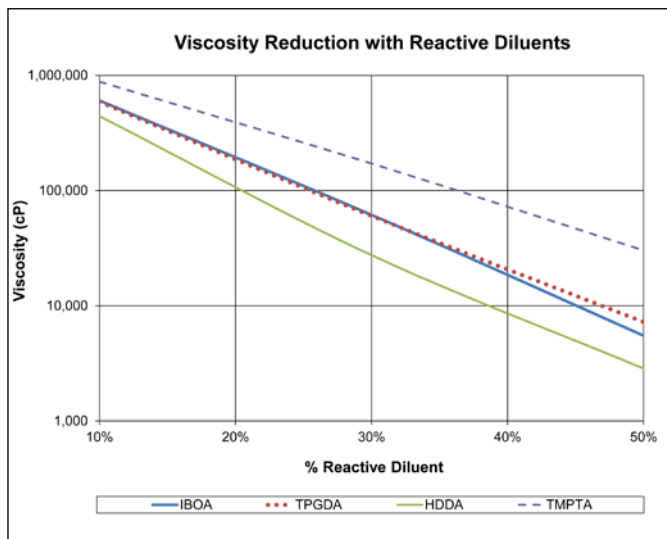
**FEATURES & BENEFITS**

- Adheres to Polymer Films
- Elastomeric
- Abrasion Resistance
- Tin Free

Bomar<sup>®</sup> BR-7432GB, an aliphatic polyester urethane diacrylate, formulates into applications requiring adhesion to various substrates and applications such as thermoforming resistant coatings where toughness and flexibility are required. BR-7432GB provides excellent balance of weathering, solvent resistance, tensile strength, and adhesion properties.

**UNCURED PROPERTIES**

Property	Value
Viscosity, cP (50°C)	200,000
Pt-Co (APHA) Color	<125
Refractive Index (25°C)	1.487
Density, g/cm <sup>3</sup> (25°C)	1.10



Brookfield – CAP2000+ @ 25°C

**TYPICAL FORMULATIONS**

Test Formulation Name	I30	I50	TM50	TP50	H50
BR-7432GB	70	50	50	50	50
IBOA	30	50			
TMPTA			50		
TPGDA				50	
HDDA					50
Omnirad <sup>™</sup> 481	2	2	2	2	2
Viscosity, 25°C*	59,000	6,400	31,000	6,400	2,700

\* Brookfield – Small Samples Adapter

**CURED MECHANICAL PROPERTIES**

Property	I30	I50	TM50	TP50	H50
Tensile Strength, psi**	2000	2100	1400	1900	1900
Elongation, %**	340	180	3	30	12
Elastic Modulus, ksi**	0.7	2.1	72	10	25
Durometer Hardness	84A	43D	79D	57D	60D
MEK Double Rubs (#)	>200	110	>200	130	100
T <sub>g</sub> (DMA) = -60°C; Peak tan delta; cured with 2 phr of Omnirad <sup>™</sup> 481					

\*\* ASTM D882

**ADHESION PROPERTIES**

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

✓ Recommended    ✓✓ Highly Recommended    ✓✓✓ Strongly Recommended

© 2012-2014 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. Omnirad<sup>™</sup> is a trademark of IGM Resins, BV.

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. 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. Technical Data Collection Prior to 2012 06/12/2014