

LS–XR–144 Trifunctional Aliphatic

Applications

• Food packaging adhesives

ADHESION PROPERTIES

ABS

Glass

HDPE

Pet Pmma

PVC

Aluminum

Cold Rolled Steel

Polycarbonate

Polypropylene

Stainless Steel

Substrate

- Low-migration inks and coatings

High hardness

Features

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• Low leaching photoinitiators

- Additional FeaturesPolymeric initiator
- LS® XR-144, a medium molecular weight, trifunctional, aliphatic polyether urethane acrylate oligomer with backbone-grafted photoinitiator is a developmental product showcasing Bomar's Light-Sensitive technology. Compare this oligomer to its conventional counterpart, Bomar BR-144B, to see the advantages that LS® systems have over conventional formulations.

UNCURED PROPERTIES	
Property	Value
Viscosity, cP (60°C)	46,000
Pt–Co (APHA) Color	<50
Refractive Index (25°C)	1.489
Density, g/cm3 (25°C)	1.08

CURED MECHANICAL PROPERTIES									
Property	130	150	TM50	TP50	H50	HE30			
Tensile Strength, psi**	4,300	5,600	5,300	3,700	5,600	2,700			
Elongation, %**	6	5	2	13	5	100			
Elastic Modulus, ksi**	200	230	260	130	190	30			
Durometer Hardness	84D	84D	91D	82D	81D	84D			
Water Absorption, % (24 hrs)	0.42	0.24	0.45	0.62	0.44	2.4			
MEK Double Rubs (#)	28	9	>200	8	100	22			
Tg(DMA)=56°C; Peak tan delta; cured with 2 phr of Omnirad® 184									

** Per ASTM D882 - Not Tested || Incompatible X Unable to Measure

130

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✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended

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**V V V** 

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TM50 TP50 H50

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HE30

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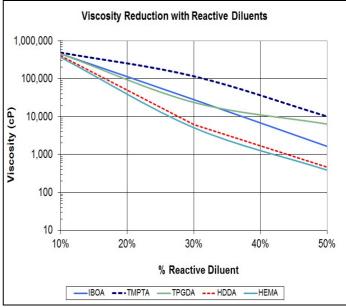
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TYPICAL FORMULATIONS								
Test Formulation Name	130	150	TM50	TP50	H50	HE30		
LS-XR-144	70	50	50	50	50	70		
IBOA	30	50						
TMPTA			50					
TPGDA				50				
HDDA					50			
HEMA						30		
Omnirad™ 184	2	2	2	2	2	2		
Viscosity, 25°C *	28,000	1,600	10,000	6,400	500	5,100		

* Brookfield - CAP 2000+ @ 25°C.



Brookfield - CAP 2000+ @ 25°C

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This product is intended for industrial use only. Keep out of the reach of children. Avoid breathing vapors, Avoid contact with skin, eves, and clothing. Wear impervious gloves, Regeated or continuous skin contact with uncured material may cause irritation. Remove material from skin with soap and water. Never use organic solvents to remove material from skin and eyes. For more information on the safe handling of this material, please refer to the Safety Data Sheet before use. The data provided in this document are based on historical testing that Bomar performed under laboratory conditions as they existed at that time and are for informational purposes only. The data are neither specifications nor guarantees of future performance in a particular application. Bomar does not guarantee that this product's properties are suitable for the user's intended purpose. Numerous factors-including, without limitation, transport, storage, processing, the material with which the product is used, and the ultimate function or purpose for which the product was obtained-may affect the product's performance and/or may cause the product's actual behavior to deviate from its behavior in the laboratory. None of these factors are within Bomar's control. Conclusions about the behavior of the product under the user's particular conditions, and the product's suitability for a specific purpose, cannot be drawn from the information contained in this document. It is the user's responsibility to determine (i) whether a product is suitable for the user's particular purpose or application and (ii) whether it is compatible with the user's intended manufacturing process, equipment. and methods. Under no circumstances will Bomar be liable for determining such suitability or compatibility. Before the user sells any item that incorporates Bomar's product, the user shall adequately and repetitively test the item in accordance with the user's procedures and protocols. Unless specifically agreed to in writing, Bomar will have no involvement in, and shall under no circumstances be liable for, such testing. Bomar makes no warranties, whether express or implied, concerning the merchantability of this product or its fitness for a particular purpose. Nothing in this document should be interpreted as a warranty of any kind. Under no circumstances will Bomar be liable for any injury, loss, expense or incidental or consequential damage of any kind allegedly arising in connection with the user's handling, processing, or use of the product. It is the user's responsibility to adopt appropriate precautions and safeguards to protect persons and property from any risk arising from such handling, processing, or use. The specific conditions of sale for this product are set forth in Bomar Conditions of Sale. Nothing contained herein shall act as a representation that the product use or application is free from patents owned by Bomar or any others. Nothing contained herein shall act as a grant of license under any Bomar Patent. Except as otherwise noted, all trademarks used herein are trademarks of Bomar Specialties, LLC. The "®" symbol denotes a trademark that is registered in the U.S. Patent and Trademark Office. The contents of this document are subject to change. Unless specifically agreed to in writing, Bomar shall have no obligation to notify the user about any change to its content.

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