

# BRC-8430E 1.4 Functional Hydrophobic Urethane Acrylate

### **Applications**

- Pressure Sensitive Adhesives
- Laminating Adhesives
- Screen Inks

- Features
- Low Tg
- Hydrolytic Stability
- High Flexibility

## Additional Features

- Low yellowing
- Adhesion to plastics
- Thermal Stability

BRC-8430E is a reduced-functionality version of BRC-843S that provides improved flexiblity and reduced modulus compared with BRC-843S. The hydrophobic and temperature resistant backbone of BRC-8430E combined with the low modulus make BRC-8430E an excellent candidate for moisture resistant adhesives, coatings, and resins, as well as formulations that need to pass autoclave or 85/85 testing.

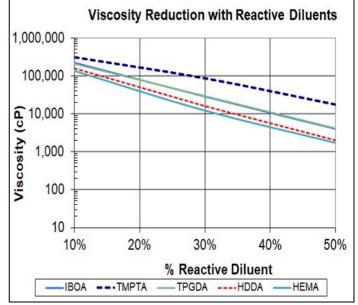
UNCURED PROPERTIES									
Property			Value						
Viscosity, cP (60°C)			22,000						
Pt–Co (APHA) Color			45						
Refractive Index (25°C)			1.48						
Density, g/cm3 (25°C)			1.10						
CURED MECHANICAL PROPERTIES									
Property	130	150	TM50	TP50	H50	HE30			
Tensile Strength, psi**	900	1,600	2,800	1,300	1,600	400			
Elongation, %**	230	170	2.9	11.3	5.4	120			
Elastic Modulus, ksi**	2.9	25	120	35	50	0.92			
Durometer Hardness	70A	45D	76D	56D	61D	59A			
Water Absorption, % (24 hrs)	0.44	0.32	0.56	0.62	0.5	3.23			
MEK Double Rubs (#)	47	11	>200	35	38	5			
Tg(DMA)=1°C°C; Peak tan delta; cured with 2 phr of Omnirad® 184									
** Per ASTM D882 - Not Tested    Incompatible X Unable to Measure									

TYPICAL FORMULATIONS									
Test Formulation Name	130	150	TM50	TP50	H50	HE30			
BRC-8430E	70	50	50	50	50	70			
IBOA	30	50							
ТМРТА			50						
TPGDA				50					
HDDA					50				
HEMA						30			
Omnirad™ 184	2	2	2	2	2	2			
Viscosity, 25°C *	29,000	4,000	18,000	4,200	2,000	12,000			

\* Brookfield - CAP 2000+ @ 25°C.

ADHESION PROPERTIES 150 TM50 TP50 H50 HE30 Substrate 130 ABS 11 111 11 1 1 1 Aluminum Cold Rolled Steel 11 1 Glass / 1 HDPE 1 PET 111 1 11 111 1 111 PMMA 11 111 1 111 1 111 111 111 1 Polycarbonate 1 Polypropylene 1 PVC 11 111 11 111 1 1 Stainless Steel 1 ,

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



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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