

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.

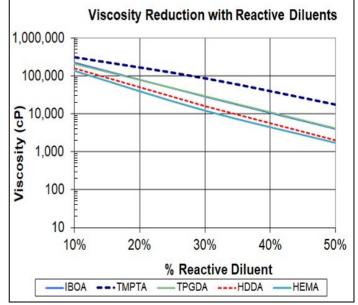
UNCURED PROPERTIES									
Property			Value						
Viscosity, cP (60°C)			22,000						
Pt–Co (APHA) Color			45						
Refractive Index (25°C)			1.48						
Density, g/cm3 (25°C)			1.10						
CURED MECHANICAL PROPERTIES									
Property	130	150	TM50	TP50	H50	HE30			
Tensile Strength, psi**	900	1,600	2,800	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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