

BR-144H15 Trifunctional Aliphatic Polyether Urethane Acrylate

Applications

Features

- Wood coatings
- Graphic arts
- Hydrolytically stable coatings
- Rapid cure speed
- Exhibits hydrolytic stability
- Low color / non-yellowing

- **Additional Features**
- High gloss
- Enhances weatherability
- Improves abrasion resistance

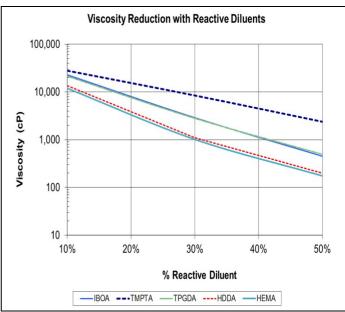
BR-144H15 is a trifunctional polyether urethane acrylate with excellent weatherability properties, fast cure speeds, and abrasion and solvent resistance. BR-144H15 is suitable for abrasion resistant wood coatings, hydrolytically stable inks, and coatings requiring additional cure speed with multifunctional oligomers.

UNCURED PROPERTIES	
Property	Value
Viscosity, cP (25°C)	65,000
Pt–Co (APHA) Color	25
Refractive Index (25°C)	1.48
Density, g/cm3 (25°C)	1.07
CURED MECHANICAL PROPERTIES	

CURED MECHANICAL PROPERTIES						
Property	130	150	TM50	TP50	H50	HE30
Tensile Strength, psi**	4,500	7,400	6,900	5,400	6,000	4,100
Elongation, %**	9.5	4.5	2.0	10.0	6.5	25
Elastic Modulus, ksi**	240	340	370	240	220	200
Durometer Hardness	87D	88D	92D	86D	87D	55D
Water Absorption, % (24 hrs)	0.35	0.25	0.38	0.45	0.31	1.46
MEK Double Rubs (#)	55	49	>200	>200	190	32
Tq(DMA)=70°C; Peak tan delta; cured with 2 phr of Omnirad® 184						

Test Formulation Name	130	150	TM50	TP50	H50	HE30
BR-144H15	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 *	2,900	500	2,400	500	200	1,000

* Brookfield - CAP 2000+ @ 25°C



Brookfield - CAP 2000+ @ 25°C

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

ADHESION PROPERTIES						
Substrate	130	150	TM50	TP50	H50	HE30
ABS			~~~		~	
Aluminum						
Cold Rolled Steel		~		√		~
Glass						~
HDPE						
PET	~	~~	~	✓	$\checkmark\checkmark$	~ ~~
РММА			~~~		~~~	~
Polycarbonate	~	~		√	✓	
Polypropylene						
PVC		~				~
Stainless Steel						

 \checkmark Recommended $\checkmark \checkmark$ Highly Recommended $\checkmark \checkmark \checkmark$ Strongly Recommended

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