

BR-571 Difunctional Aliphatic Polyether Urethane Acrylate

Applications

- Coatings for wood
- Pigmented coatings
- Rigid plastic topcoats

Features

- Improves solvent resistance
- Enhances toughness
- Improves weatherability
- Gloss finish

Additional Features

- Provides hardness
- Exceptionally low color
- Exhibits hydrolytic stability

BR-571 is an aliphatic polyether urethane diacrylate with exceptionally low color. Based on a stable polyether backbone, BR-571 offers excellent physical properties in formulated films. While relatively high in neat viscosity, BR-571 reduces quickly with the addition of heat or monomer. Formulations using BR-571 often have a unique blend of toughness and flexibility.

UNCURED PROPERTIES	
Property	Value
Viscosity, cP (60°C)	31,000
Pt-Co (APHA) Color	20
Refractive Index (25°C)	1.494
Density, g/cm3 (25°C)	1.08
CURED MECHANICAL PROPERTIES	

CURED MECHANICAL PROPERTIES						
Property	130	150	TM50	TP50	H50	HE30
Tensile Strength, psi**	3,400	2,800	4,600	2,400	2,800	2,300
Elongation, %**	75	40	3.1	10.6	5.5	80
Elastic Modulus, ksi**	45	140	170	70	90	20
Durometer Hardness	64D	75D	80D	68D	71D	60D
Water Absorption, % (24 hrs)	0.5	0.35	0.7	0.8	0.66	2.74
MEK Double Rubs (#)	75	25	>200	92	130	23
Tg(DMA)=63°C; Peak tan delta; cured with 2 phr of Omnirad® 184						

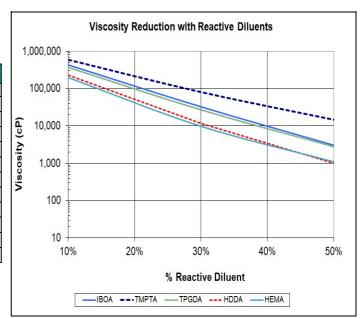
** Per ASTM D882 - Not Tested || Incompatible X Unable to Measure

TYPICAL FORMULATIONS						
Test Formulation Name	130	150	TM50	TP50	H50	HE30
BR-571	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 *	34,000	3,000	15,000	2,800	1,000	9,800

* Brookfield - CAP 2000+ @ 25°C.

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

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



Brookfield - CAP 2000+ @ 25°C

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