

• Thermoforming coatings and inks

Impact modifier for coatings, 3D printing

resins, and peroxide-cured composites

BR-7432GI30 Difunctional Aliphatic Polyester Urethane Acrylate

Applications

- Features
- Coatings for metal and plastic
 Imparts incredible toughness
 - Low Tg
 - Improves impact resistance
 - Excellent cure response in LED conditions

Additional Features

- Adheres to polymer films
- Elastomeric
- Provides abrasion resistance

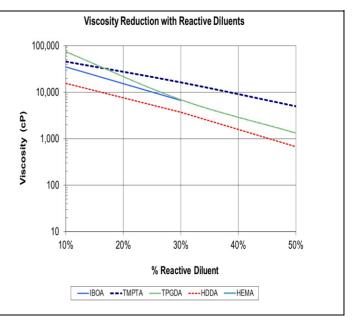
BR-7432GI30, an aliphatic polyester urethane diacrylate, formulates into applications requiring adhesion to various substrates and applications where excellent toughness and flexibility are required. The BR-7432GI30 backbone performs very well in extended weatherability studies. It is an excellent choice for impact and bend resistant coatings, and can act as an impact modifier for composite applications.

UNCURED PROPERTIES											
Property			Value								
Viscosity, cP (25°C)			69,000								
Pt-Co (APHA) Color			36								
Refractive Index (25°C)			1.483								
Density, g/cm3 (25°C)			1.11								
CURED MECHANICAL PROPERTIES											
Property	130		150	TM50	TP50	H50	HE30				
Tensile Strength, psi**	2,200		=	4,400	3,100	3,200	I				
Elongation, %**	180		I	4.0	20	11.0	I				
Elastic Modulus, ksi**	7		I	170	90	85	I				
Durometer Hardness	45D		Ι	83D	68D	72D	I				
Water Absorption, % (24 hrs)	0.66		Ι	0.66	0.67	0.57	I				
MEK Double Rubs (#)	6		-	>200	29	121	I				
Tg(DMA)=40°C; Peak tan delta; cured with 2 phr of Omnirad® 184											
** Per ASTM D882 - Not Tested Incompatible X Unable to Measure											
ADHESION PROPERTIES											
Substrate	13	0	150	TM50	TP50	H50	HE30				
ABS	~	√	I	~~~	~~~~	~~~~	I				
Aluminum			I				I				
Cold Rolled Steel			Ш				I				
Glass			-				I				
HDPE			-				I				
PET	√,	/	-	~~	~~	~~	I				
PMMA	~		-	~	~	~~	I				
Polycarbonate	~		I	~~~	VV	~~~	I				
Polypropylene			I				I				
PVC			I	~~~	~~~	$\checkmark\checkmark\checkmark$	I				
Stainless Steel			I				I				

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

TYPICAL FORMULATIONS						
Test Formulation Name	130	150	TM50	TP50	H50	HE30
BR-7432GI30	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 *	6,700	I	5,000	1,300	700	I

* Brookfield - CAP 2000+ @ 25°C.



Brookfield - CAP 2000+ @ 25°C

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