

50%

BR-3641AJ 1.3 Functional Aliphatic Polyether Urethane Acrylate

Applications

- Pressure sensitive adhesives (PSA)
- Adhesion promoter
- Reactive tackifier

Features

- Optical clarity
- Exhibits hydrolytic stability
- Resilience

Additional Features

- Tenacious adhesion
- Enhances weatherability
- Non-yellowing

BR-3641AJ is an aliphatic polyether urethane acrylate with a high molecular weight and theoretical 1.3 functionality. Films formulated with BR-3641AJ are highly flexible, elastomeric, and tacky. It is excellent as an adhesion promoter or reactive tackifier. It is a perfect choice for optically clear UV-PSAs.

UNCURED PROP	PERTIE	S					TYPICAL FORMULATIONS								
Property			Value				Test Formulation Name	130	150	TM50	TP50	H50	HE30		
Viscosity, cP (60°C)			10,000				BR-3641AJ	70	50	50	50	50	70		
Pt–Co (APHA) Color			15				IBOA	30	50						
Refractive Index (25°C) 1.46				ТМРТА			50								
Density, g/cm3 (25°C) 1.01				TPGDA				50							
CURED MECHAN	лсл	סחסס	EDTIEG	2			HDDA					50			
Property	130		тмбо		UEO	11520	НЕМА						30		
Tensile							Omnirad™ 184	2	2	2	2	2	2		
Strength, psi**	50	600	1,000	600	700	Х	Viscosity, 25°C *	9,500	1,900	8,400	2,300	1,300	7,000		
Elongation, %**	400	500	2.2	13.7	5.9	Х	* Brookfield - CAP 2000+ @ 25°C.								
Elastic Modulus, ksi**	0.03	5.2	50	15	20	х									
Durometer Hardness	17A		56D	27D	41D	13A									
Water Absorption, % (24 hrs)	1.25	0.81	1.7	1.49	1.28	7.45	Viscosity Reduction with Reactive	Diluents	100	Viscosity Reduction with Reactive Diluents					
MEK Double Rubs (#)	9	8	5	2	15	20	10,000		= 10	0,000					
Tg(DMA)=-36°C; Peak tan delta; cured with 2 phr of Omnirad® 184 ** Per ASTM D882 - Not Tested Incompatible X Unable to Measure ADHESION PROPERTIES						(L) 1,000		Viscosity (cP)	1,000						
Substrate	130) 150	TM50) TP50) H50	HE30	> 100		>	100					
ABS			1							-					
Aluminum		~	1				10			10					
Cold Rolled Stee	el	✓	1				10% 20% 30%	40% 5	0%		20% 3	0% 40	1% 50%		
Glass		✓	1				% Reactive Dilue				V Dece	tive Diluent			
HDPE															
PET		~	✓												
PMMA			✓												
Polycarbonate			1		1										
			1	1	1										
Polypropylene															
Polypropylene PVC		~													

✓ Recommended ✓✓ Highly Recommended ✓✓✓ Strongly Recommended



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