

KRYSTALFLEX™ PE499

Polyurethane (Polyether, Aliphatic)
Huntsman Corporation

Message:

KRYSTALFLEX PE499 is a high performance aliphatic polyether film intended for processing by lamination into a range of glass/plastics components.

General Information			
Features	Low warpage		
	Flexibility at low temperatures		
	Good UV resistance		
	Hydrolysis resistance		
	Hardness, low		
Uses	Laminate		
RoHS Compliance	Contact manufacturer		
Forms	Films		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	65		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% strain	1.72	MPa	ASTM D412
300% strain	2.76	MPa	ASTM D412
Tensile Strength ² (Yield)	24.1	MPa	ASTM D412
Tensile Elongation ³ (Break)	850	%	ASTM D412
Tear Strength	39.4	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-48.9	°C	DSC
Additional Information			
Softening Range, TMA: 140 to 230°FTypical Laminating Parameters:Ultimate Temperature: 194 to 212°FUltimate Pressure: 116 to 174 psiSoaking Time: 30 min/0.25 in			
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		

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