

Huntsman KRYSTALFLEX® PE 399 Polyurethane Optical Aliphatic Film

Category : Polymer , Film , Thermoplastic , Polyurethane, TP

Material Notes:

Key Properties:Moisture ResistanceChemical CompatibilityCooler ProcessingHigher AdhesionMultiple Design OptionNo special storage requiredInformation provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-KRYSTALFLEX-PE-399-Polyurethane-Optical-Aliphatic-Film.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength at Break	27.6 - 38.6 MPa	4000 - 5600 psi	ASTM D412
Elongation at Break	380 - 400 %	380 - 400 %	ASTM D412
100% Modulus	0.00179 - 0.00269 GPa	0.260 - 0.390 ksi	ASTM D412
300% Modulus	0.0117 - 0.0152 GPa	1.70 - 2.20 ksi	ASTM D412
Tear Strength	42.1 - 49.1 kN/m	240 - 280 pli	ASTM D624
Peel Strength	7.89 - 14.9 kN/m	45.0 - 85.0 pli	resistance to glass; ASTM D3167
	@Temperature 91.0 Å°C	@Temperature 196 Å°F	
	19.6 - 21.6 kN/m	112 - 123 pli	
	@Temperature 99.0 Å°C	@Temperature 210 Å°F	
	22.1 - 25.9 kN/m	126 - 148 pli	resistance to glass; ASTM D3167
	@Temperature 113 Å°C	@Temperature 235 Å°F	
	23.8 - 24.5 kN/m	136 - 140 pli	resistance to glass; ASTM D3167
	@Temperature 118 Å°C	@Temperature 244 Å°F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-36.0 Å°C	-32.8 Å°F	

Processing Properties	Metric	English	Comments
Melt Temperature	76.0 - 140 Å°C	169 - 284 Å°F	

Processing Properties	Metric	English	Comments
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