

Huntsman IROGRAN® PS455-200 TPU-Polyester

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Introduction: IROGRAN PS455-200 is a polyester based thermoplastic polyurethane intended for extrusion applications. IROGRAN PS455-200 is part of the HUNTSMAN film and sheet product range and offers a specially designed, flexible material with a broad processing window particularly suitable for film and sheet, textile laminations, and compounding. Performance Features: FDA grade (21 CFR 175.105, 177.2600) Soft High elongation Tough Good low temperature properties Wide processing window Applications: Textile lamination Compounding Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-PS455-200-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	Injection molded parts; ASTM D792
Melt Index of Compound	8.0 g/10 min	8.0 g/10 min	MVR, [cm ³ /10 min]
	@Load 2.16 kg, Temperature 177 °C	@Load 4.76 lb, Temperature 351 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	Injection molded parts; ASTM D2240
Tensile Strength at Break	42.0 MPa	6090 psi	0.025" extruded film; DIN 53504
Elongation at Break	700 %	700 %	0.025" extruded film; DIN 53504
100% Modulus	0.00200 GPa	0.290 ksi	0.025" extruded film; DIN 53504
300% Modulus	0.00500 GPa	0.725 ksi	0.025" extruded film; DIN 53504
Rebound	50 %	50 %	Bayshore; ASTM D2632
Tear Strength	66.6 kN/m	380 pli	0.025" extruded film; ASTM D624
Abrasion	50	50	mm ³ , Injection molded; DIN 53516
Compression Set	40 %	40 %	Injection molded; ASTM D395
	@Temperature 22.8 °C, Time 252000 sec	@Temperature 73.0 °F, Time 70.0 hour	
	90 %	90 %	Injection molded; ASTM D395
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	110 - 130 Â°C	230 - 266 Â°F	0.025" extruded film,

Processing Properties	Metric	English	Comments
Feed Temperature	140 Â°C	284 Â°F	Extrusion
Middle Barrel Temperature	150 Â°C	302 Â°F	Extrusion
Adapter Temperature	150 Â°C	302 Â°F	Extrusion
Die Temperature	150 Â°C	302 Â°F	Extrusion

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