

Huntsman IROGRAN® A 85 H 4508 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 85 H 4508 is a thermoplastic polyester- polyurethane for injection molding applications. Additional characteristics of the product are excellent mechanical properties and high tear strength. Performance Features: Easy demolding High production rates Dynamically highly loadable High demolding stability Recyclable Applications: For the production of mining screens, casual shoe soles conveyor rollers, top lifts, wheels and rollers Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-H-4508-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	Injection molded parts
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Injection molded; ASTM D955
Melt Index of Compound	50 g/10 min @Load 21.6 kg, Temperature 190 °C	50 g/10 min @Load 47.6 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	Injection molded parts; ASTM D2240
Hardness, Shore D	34	34	Injection molded parts; ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	Injection molded parts; DIN 53504
Elongation at Break	650 %	650 %	Injection molded parts; DIN 53504
100% Modulus	0.00600 GPa	0.870 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0130 GPa	1.89 ksi	Injection molded parts; DIN 53504
Tear Strength	69.9 kN/m	399 pli	Injection molded parts; DIN 53515
Abrasion	30	30	mm ³ , Injection molded; DIN 53516
Compression Set	25 % @Temperature 22.8 °C, Time 86400 sec	25 % @Temperature 73.0 °F, Time 24.0 hour	Injection molded; ASTM D395
	40 % @Temperature 70.0 °C, Time 86400 sec	40 % @Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	137 - 200 Â°C	279 - 392 Â°F	

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Extrusion
Middle Barrel Temperature	165 - 190 Â°C	329 - 374 Â°F	Extrusion
Nozzle Temperature	170 - 200 Â°C	338 - 392 Â°F	Extrusion
	180 - 200 Â°C	356 - 392 Â°F	Injection
Adapter Temperature	175 - 195 Â°C	347 - 383 Â°F	Extrusion
Die Temperature	175 - 200 Â°C	347 - 392 Â°F	Extrusion
Melt Temperature	170 - 195 Â°C	338 - 383 Â°F	Injection
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	175-195Â°C	Injection

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