

Huntsman IROGRAN® A 78 E 4506 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 78 E 4506 is a thermoplastic polyester- polyurethane for injection molding and extrusion applications. Additional characteristics of the product are excellent mechanical properties and high tear strength. Performance Features: High production rates Good melt flow Softener-free High oil resistance Dynamically highly loadable Applications: For the production of profiles, spiral hoses, jackets for high pressure hoses Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-78-E-4506-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	Injection molded
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Injection molded; ASTM D955
Melt Index of Compound	25 g/10 min @Load 21.6 kg, Temperature 190 °C	25 g/10 min @Load 47.6 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	Injection molded parts; ASTM D2240
Hardness, Shore D	30	30	Injection molded parts; ASTM D2240
Tensile Strength at Break	50.0 MPa	7250 psi	Injection molded parts; DIN 53504
Elongation at Break	700 %	700 %	Injection molded parts; DIN 53504
100% Modulus	0.00440 GPa	0.638 ksi	Injection molded parts; DIN 53504
300% Modulus	0.00800 GPa	1.16 ksi	Injection molded parts; DIN 53504
Tear Strength	60.0 kN/m	342 pli	Injection molded parts; DIN 53515
Abrasion	25	25	mm ³ , Injection molded; ISO 4649
Compression Set	21 % @Temperature 22.8 °C, Time 86400 sec	21 % @Temperature 73.0 °F, Time 24.0 hour	Injection molded; ASTM D395
	36 % @Temperature 70.0 °C, Time 86400 sec	36 % @Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

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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