

Huntsman IROGRAN® A 91 P 4945 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 91 P 4945 is a polyether based thermoplastic polyurethane intended for injection molding and extrusion applications. IROGRAN A 91 P 4945 is part of the HUNTSMAN technical extrusion product range and offers a specially designed, flexible material with high extrudability. Performance Features: High microbial resistance Excellent hydrolysis resistance High stability of melt Easy coloring Low temperature flexibility Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-91-P-4945-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Injection molded parts
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Injection molded; ASTM D955
Melt Index of Compound	55 g/10 min @Load 21.6 kg, Temperature 190 °C	55 g/10 min @Load 47.6 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	Injection molded parts; ASTM D2240
Hardness, Shore D	39	39	Injection molded parts; ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	Injection molded parts; DIN 53504
Elongation at Break	600 %	600 %	Injection molded parts; DIN 53504
100% Modulus	0.00910 GPa	1.32 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0159 GPa	2.31 ksi	Injection molded parts; DIN 53504
Tear Strength	116 kN/m	660 pli	Injection molded parts; ASTM D624
Abrasion	30	30	mm ³ , Injection molded; DIN 53516

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 °C	77.0 - 95.0 °F	Injection
	25.0 - 40.0 °C	77.0 - 104 °F	Extrusion
Middle Barrel Temperature	185 - 195 °C	365 - 383 °F	Extrusion
Nozzle Temperature	185 - 200 °C	365 - 392 °F	Injection

Processing Properties	190 - 200 Â°C Metric	374 - 392 Â°F English	Extrusion Comments
Adapter Temperature	190 - 200 Â°C	374 - 392 Â°F	Extrusion
Die Temperature	190 - 200 Â°C	374 - 392 Â°F	Extrusion
Mold Temperature	20.0 - 50.0 Â°C	68.0 - 122 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	185-195Â°C	Injection

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