

Huntsman IROGRAN® A 94 E 4900 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 94 E 4900 is a thermoplastic polyester polyurethane for melt calendering. IROGRAN is part of the HUNTSMAN technical extrusion/injection molding product range and offers a specially designed, flexible material with a broad processing window. Performance Features: High oil resistance High production rate Good melt flow Easy coloring Applications: Calendering Technical molding Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-94-E-4900-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	Injection molded parts; ASTM D792
Melt Index of Compound	60 g/10 min @Load 10.0 kg, Temperature 210 Â°C	60 g/10 min @Load 22.0 lb, Temperature 410 Â°F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	Injection molded parts; ASTM D2240
Hardness, Shore D	44	44	Injection molded parts; ASTM D2240
Tensile Strength at Break	38.0 MPa	5510 psi	Injection molded parts; DIN 53504
Elongation at Break	550 %	550 %	Injection molded parts; DIN 53504
100% Modulus	0.0110 GPa	1.60 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0170 GPa	2.47 ksi	Injection molded parts; DIN 53504
Tear Strength	100 kN/m	571 pli	Injection molded parts; DIN 53515
Abrasion	33	33	mm ³ , Injection molded; DIN 53516

Thermal Properties	Metric	English	Comments
Melting Point	158 - 221 Â°C	316 - 430 Â°F	0.025" extruded film

Processing Properties	Metric	English	Comments
Feed Temperature	170 Â°C	338 Â°F	Extrusion
Middle Barrel Temperature	175 Â°C	347 Â°F	Extrusion
Adapter Temperature	180 Â°C	356 Â°F	Extrusion

Processing Properties	Metric	English	Comments
Roll Temperature	168 Â°C	334 Â°F	Front, 29 rpm
	168 Â°C	334 Â°F	Rear, 25 rpm

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