

Huntsman IROGRAN® A 60 E 4902 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 60 E 4902 is a soft, high performance polyester based thermoplastic polyurethane intended for extrusion and molding applications. IROGRAN A 60 E 4902 is part of the HUNTSMAN Film and Sheet and Injection-Molding product ranges. It is processable at low temperatures and offers a specially designed, flexible material suitable for elastic films & moldings Performance Features: Excellent elasticity Excellent wear performance Good low temperature flexibility Enhanced Hydrolytic Stability Enhanced UV stability Low temperature processability Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-60-E-4902-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	Injection molded; ASTM D792
Melt Index of Compound	35 g/10 min @Load 8.70 kg, Temperature 160 °C	35 g/10 min @Load 19.2 lb, Temperature 320 °F	MVR

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56	56	Injection molded parts; ASTM D2240
Hardness, Shore D	15	15	Injection molded parts; ASTM D2240
Tensile Strength at Break	7.52 MPa	1090 psi	0.025" extruded film; ASTM D412
Elongation at Break	715 %	715 %	0.025" extruded film; ASTM D412
100% Modulus	0.00140 GPa	0.203 ksi	0.025" extruded film; DIN 53504
300% Modulus	0.00240 GPa	0.348 ksi	0.025" extruded film; DIN 53504
Rebound	60 %	60 %	Bayshore; ASTM D2632
Tear Strength	35.9 kN/m	205 pli	0.025" extruded film; ASTM D624
Abrasion	43	43	mm ³ , Injection molded; DIN 53516
Compression Set	40 % @Temperature 22.8 °C, Time 252000 sec	40 % @Temperature 73.0 °F, Time 70.0 hour	Injection molded; ASTM D395
	80 % @Temperature 70.0 °C, Time 86400 sec	80 % @Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

Mechanical Properties	Metric	English	Comments
Tensile Set	@Strain 200 %	@Strain 200 %	0.025" extruded film; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	110 - 143 Â°C	230 - 289 Â°F	0.025" extruded film,

Processing Properties	Metric	English	Comments
Feed Temperature	160 - 170 Â°C	320 - 338 Â°F	
Middle Barrel Temperature	160 - 170 Â°C	320 - 338 Â°F	
Nozzle Temperature	160 - 170 Â°C	320 - 338 Â°F	
Adapter Temperature	160 - 170 Â°C	320 - 338 Â°F	
Die Temperature	160 - 170 Â°C	320 - 338 Â°F	
Roll Temperature	115 Â°C	239 Â°F	Front
	115 Â°C	239 Â°F	Rear

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