

Huntsman IROGRAN® A 70 E 4675 Polyester-Based TPU-High Performance Grade

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Introduction: IROGRAN A 70 E 4675 is a softener free thermoplastic special-polyester-polyurethane for injection molding applications.

Additional characteristics of the product are very short cycle times and high dimensional stability Performance Features: Easy demolding

High demolding stability Short cycle times Softener-free High elasticity Applications: For the production of casual shoe soles, cable

bushings, plugs, buffers. Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-70-E-4675-Polyester-Based-TPU-High-Performance-Grade.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.025 cm/cm	0.025 in/in	ASTM D995
Melt Index of Compound	30 g/10 min @Load 21.6 kg, Temperature 190 °C	30 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Hardness, Shore D	25	25	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	DIN 53504
Elongation at Break	650 %	650 %	ASTM D412
100% Modulus	0.00330 GPa	0.479 ksi	DIN 53504
300% Modulus	0.00580 GPa	0.841 ksi	DIN 53504
Rebound	25 %	25 %	Bayshore; ASTM D2632
Tear Strength	52.6 kN/m	300 pli	ASTM D624
Abrasion	80	80	[mm ³]; ISO 4649
Compression Set	35 % @Temperature 23.0 °C, Time 252000 sec	35 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	58 %	58 %	

Mechanical Properties	Metric @Temperature 70.0 Â°C	English @ Temperature 158 Â°F,	ASTM D395 Comments
	Time 86400 sec	Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	125 - 190 Â°C	257 - 374 Â°F	Huntsman/TMA

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Extrusion
Front 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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