

Huntsman IROGRAN® A 85 P 4350 TPU-Polyether

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

Material Notes:

Introduction: IROGRAN A 85 P 4350 is a flame-retardant, halogen-free, thermoplastic polyether-polyurethane intended for extrusion and injection molding applications. Additional characteristics of the product are excellent microbial resistance, high low-temperature flexibility, especially suitable for cable jackets.Performance Features: Excellent hydrolysis resistance High microbial resistance High elasticity Flame retardant Halogen-free Good melt flow UL 94 classification V2 Applications: Cables Hoses Profiles Spiral HosesInformation provided by Huntsman

Order this product through the following link:
http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-P-4350-TPU-Polyether.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D995
Melt Flow	30 - 60 g/10 min	30 - 60 g/10 min	Melt Volume Rate (cm ³ /10 min)
Melt Index of Compound	50 g/10 min @Load 21.6 kg, Temperature 190 °C	50 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	DIN 53504
Elongation at Break	660 %	660 %	ASTM D412
100% Modulus	0.00650 GPa	0.943 ksi	DIN 53504
300% Modulus	0.0102 GPa	1.48 ksi	DIN 53504
Rebound	42 %	42 %	Bayshore; ASTM D2632
Tear Strength	85.9 kN/m	490 pli	ASTM D624
Abrasion	35	35	[mm ³]; ISO 4649
Compression Set	22 % @Temperature 23.0 °C, Time 252000 sec	22 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	40 %	40 %	

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

Thermal Properties	Metric	English	Comments
Melting Point	171 - 190 Â°C	340 - 374 Â°F	Huntsman/TMA
Flammability, UL94	V-2	V-2	Non-Halogen FR

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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