

Huntsman IROGRAN® A 85 P 5350 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 85 P 5350 is a flame-retardant, halogen-free, polyether based thermoplastic polyurethane intended for extrusion and injection molding applications. IROGRAN A 85 P 5350 is part of the HUNTSMAN technical extrusion product range and offers a specially designed, flexible material with a broad processing window particularly suitable for the preparation of cable jacketing where enhanced fire retardancy is required. Performance Features: High tensile strength Excellent wear performance Excellent hydrolysis & microbial resistance Good low temperature flexibility Halogen free UL 94 Classification V2 (internal testing) Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-P-5350-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	Injection molded parts
Melt Index of Compound	36 g/10 min @Load 21.6 kg, Temperature 190 °C	36 g/10 min @Load 47.6 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	89	89	Injection molded parts; ASTM D2240
Hardness, Shore D	37	37	Injection molded parts; ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	Injection molded parts; DIN 53504
Elongation at Break	690 %	690 %	Injection molded parts; DIN 53504
100% Modulus	0.00780 GPa	1.13 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0113 GPa	1.64 ksi	Injection molded parts; DIN 53504
Tear Strength	99.9 kN/m	570 pli	Injection molded parts; ASTM D624
Abrasion	40	40	mm ³ , Injection molded; DIN 53516

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 °C	77.0 - 104 °F	Extrusion
Middle Barrel Temperature	160 - 200 °C	320 - 392 °F	Extrusion
Nozzle Temperature	170 - 205 °C	338 - 401 °F	Extrusion
	200 - 210 °C	392 - 410 °F	Injection

Processing Properties	Metric100 Â°C	English102 Â°F	Comments
Die Temperature	175 - 205 Â°C	347 - 401 Â°F	Extrusion
Melt Temperature	190 - 205 Â°C	374 - 401 Â°F	Injection
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	170-210Â°C	Injection

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China