

Huntsman IROGRAN® A 85 E 4719 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 85 E 4719 is a thermoplastic polyester polyurethane for melt calendaring. IROGRAN is part of the HUNTSMAN technical extrusion and injection molding product range and offers a specially designed, flexible material with a broad processing window.

Performance Features: High wear resistance Good melt flow High elasticity Complies with FDA CFR 175.105 / 177.2600 Applications:

Textile Coatings Technical molding Cable jacketing Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-E-4719-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	Injection molded parts; ASTM D792
Melt Index of Compound	60 g/10 min @Load 10.0 kg, Temperature 190 °C	60 g/10 min @Load 22.0 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	Injection molded parts; ASTM D2240
Hardness, Shore D	36	36	Injection molded parts; ASTM D2240
Tensile Strength at Break	35.0 MPa	5080 psi	Injection molded parts; DIN 53504
Elongation at Break	620 %	620 %	Injection molded parts; DIN 53504
100% Modulus	0.00600 GPa	0.870 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0117 GPa	1.70 ksi	Injection molded parts; DIN 53504
Tear Strength	99.9 kN/m	570 pli	Injection molded parts; ASTM D624
Abrasion	20	20	mm ³ , Injection molded; DIN 53516
Compression Set	30 % @Temperature 22.8 °C, Time 86400 sec	30 % @Temperature 73.0 °F, Time 24.0 hour	Injection molded; ASTM D395
	42 % @Temperature 70.0 °C, Time 86400 sec	42 % @Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	115 - 160 Å°C Metric	239 - 320 Å°F English	0.025" extruded film, Comments
Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 Å°C	77.0 - 104 Å°F	Extrusion
Middle Barrel Temperature	170 - 195 Å°C	338 - 383 Å°F	Extrusion
Nozzle Temperature	175 - 200 Å°C	347 - 392 Å°F	Extrusion
Adapter Temperature	175 - 200 Å°C	347 - 392 Å°F	Extrusion
Die Temperature	175 - 205 Å°C	347 - 401 Å°F	Extrusion
Roll Temperature	160 - 180 Å°C	320 - 356 Å°F	Front
	160 - 180 Å°C	320 - 356 Å°F	Rear

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