

Huntsman IROGRAN® A 85 P 4441 TPU-Polyether

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

Material Notes:

Introduction: IROGRAN A 85 P 4441 is a polyether based thermoplastic polyurethane intended for injection molding and extrusion applications. IROGRAN A 85 P 4441 is part of the HUNTSMAN technical extrusion product range and offers high extrudability and low-adhesion surfaces. Performance Features: High microbial resistance Excellent hydrolysis resistance High stability of melt High production rate Low adhesion surfaces Applications: Cables Hoses Profiles Jackets for high pressure hoses Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-P-4441-TPU-Polyether.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D995
Melt Flow	50 - 80 g/10 min	50 - 80 g/10 min	Melt Volume Rate (cm ³ /10 min)
Melt Index of Compound	65 g/10 min @Load 21.6 kg, Temperature 190 °C	65 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Hardness, Shore D	38	38	ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	DIN 53504
Elongation at Break	700 %	700 %	ASTM D412
100% Modulus	0.00730 GPa	1.06 ksi	DIN 53504
300% Modulus	0.0110 GPa	1.60 ksi	DIN 53504
Rebound	38 %	38 %	Bayshore; ASTM D2632
Tear Strength	98.2 kN/m	560 pli	ASTM D624
Abrasion	35	35	[mm ³]; ISO 4649
Compression Set	24 % @Temperature 23.0 °C, Time 252000 sec	24 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	42 %	42 %	

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

Thermal Properties	Metric	English	Comments
Melting Point	155 - 175 Â°C	311 - 347 Â°F	Huntsman/TMA

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 Â°C	77.0 - 95.0 Â°F	Injection
	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Extrusion
Nozzle Temperature	180 - 190 Â°C	356 - 374 Â°F	Extrusion
	185 - 200 Â°C	365 - 392 Â°F	Injection
Adapter Temperature	175 - 185 Â°C	347 - 365 Â°F	Extrusion
Die Temperature	185 - 195 Â°C	365 - 383 Â°F	Extrusion
Mold Temperature	20.0 - 50.0 Â°C	68.0 - 122 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	185-195Â°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