

Huntsman IROGRAN® A 86 E 4486 Polyester-Based TPU-Injection Extrusion Grade

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

Material Notes:

Introduction: IROGRAN A 86 E 4486 is a thermoplastic polyester- polyurethane for injection molding and extrusion applications. Additional characteristics of the product are excellent mechanical properties and high tear strength. Performance Features: Good melt flow High production rates High wear resistance Dynamically highly loadable Halogen-free UL 94 Classification V2 Applications: For the production of spiral hoses, hose jackets for high pressure hoses, vacuum cleaner hoses, profiles. Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-86-E-4486-Polyester-Based-TPU-Injection-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D995
Melt Index of Compound	75 g/10 min @Load 21.6 kg, Temperature 190 °C	75 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	ASTM D2240
Hardness, Shore D	33	33	ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	DIN 53504
Elongation at Break	700 %	700 %	ASTM D412
100% Modulus	0.00520 GPa	0.754 ksi	DIN 53504
300% Modulus	0.0104 GPa	1.51 ksi	DIN 53504
Rebound	40 %	40 %	Bayshore; ASTM D2632
Tear Strength	96.4 kN/m	550 pli	ASTM D624
Abrasion	25	25	[mm ³]; ISO 4649
Compression Set	21 % @Temperature 23.0 °C, Time 252000 sec	21 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	35 %	35 %	

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

Thermal Properties	Metric	English	Comments
Melting Point	155 - 173 Â°C	311 - 343 Â°F	Huntsman/TMA

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not reported

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

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