

Huntsman IROGRAN® A 92 E 4860 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A92E 4860 is a high performance polyester based thermoplastic polyurethane intended for extrusion and injection molding applications. IROGRAN A92E 4860 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 spiral tubing, pneumatic tubing, belting and technical moldings. Performance Features: High tensile strength Excellent wear performance Excellent hydrolysis resistance Good low temperature flexibility Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-E-4860-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Injection molded parts; ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Injection molded; ASTM D955
Melt Index of Compound	33 g/10 min	33 g/10 min	
	@Load 10.0 kg, Temperature 210 °C	@Load 22.0 lb, Temperature 410 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	Injection molded parts; ASTM D2240
Hardness, Shore D	42	42	Injection molded parts; ASTM D2240
Tensile Strength at Break	49.0 MPa	7110 psi	Injection molded parts; DIN 53504
Elongation at Break	590 %	590 %	Injection molded parts; DIN 53504
100% Modulus	0.00750 GPa	1.09 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0160 GPa	2.32 ksi	Injection molded parts; DIN 53504
Tear Strength	116 kN/m	660 pli	Injection molded parts; ASTM D624
Abrasion	25	25	mm ³ , Injection molded; DIN 53516
Compression Set	25 %	25 %	
	@Temperature 22.8 °C, Time 252000 sec	@Temperature 73.0 °F, Time 70.0 hour	Injection molded; ASTM D395
	39 %	39 %	
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

Mechanical Properties	Metric	English	Comments
Melting Point	188 Â°C	370 Â°F	peak; 0.025" extruded film
	180 - 200 Â°C	356 - 392 Â°F	0.025" extruded film,

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Extrusion
Middle Barrel Temperature	200 - 210 Â°C	392 - 410 Â°F	Extrusion
Nozzle Temperature	200 - 210 Â°C	392 - 410 Â°F	Extrusion
	210 - 225 Â°C	410 - 437 Â°F	Injection
Adapter Temperature	200 - 210 Â°C	392 - 410 Â°F	Extrusion
Die Temperature	200 - 210 Â°C	392 - 410 Â°F	Extrusion
Melt Temperature	205 - 220 Â°C	401 - 428 Â°F	Injection
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	190-220Â°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