

Huntsman IROGRAN® A 87 H 4615 Polyester-Based TPU-Injection Molding Grade

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

Material Notes:

Introduction: IROGRAN A 87 H 4615 is a thermoplastic polyester- polyurethane for injection molding applications. Additional characteristics of the product are very short cycle times and high dimensional stability
Performance Features: Easy demolding Good melt flow High wear resistance High elasticity Dynamically highly loadable
Applications: For the production of mining screens, coupling halves, technical parts, cylinders, buffers
 Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-87-H-4615-Polyester-Based-TPU-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D995
Melt Index of Compound	50 g/10 min @Load 21.6 kg, Temperature 190 °C	50 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	DIN 53504
Elongation at Break	720 %	720 %	ASTM D412
100% Modulus	0.00560 GPa	0.812 ksi	DIN 53504
300% Modulus	0.0111 GPa	1.61 ksi	DIN 53504
Rebound	40 %	40 %	Bayshore; ASTM D2632
Tear Strength	105 kN/m	600 pli	ASTM D624
Abrasion	25	25	[mm ³]; ISO 4649
Compression Set	25 % @Temperature 23.0 °C, Time 252000 sec	25 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	43 %	43 %	

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	135 - 185 Â°C	275 - 365 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

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