

Huntsman IROGRAN® A 92 H 4656 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 92 H 4656 is a thermoplastic polyester- polyurethane for injection molding applications. Additional characteristics of the product are short cycle times, good melt flow and easy demolding. **Performance Features:** Good melt flow Easy demolding Short cycle times Easy coloring recyclable**Applications:** For the production of technical parts, wheels and rollers, cover plates, coupling halves, conveyor rollers**Information provided by Huntsman**

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-H-4656-Polyester-Based-TPU-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D995
Melt Index of Compound	90 g/10 min @Load 10.0 kg, Temperature 210 °C	90 g/10 min @Load 22.0 lb, Temperature 410 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93	93	ASTM D2240
Hardness, Shore D	40	40	ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	DIN 53504
Elongation at Break	740 %	740 %	ASTM D412
100% Modulus	0.00890 GPa	1.29 ksi	DIN 53504
300% Modulus	0.0186 GPa	2.70 ksi	DIN 53504
Rebound	32 %	32 %	Bayshore; ASTM D2632
Tear Strength	135 kN/m	770 pli	ASTM D624
Abrasion	30	30	[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	Comments
	@ Temperature 70.0 Â°C, Time 86400 sec	@ Temperature 158 Â°F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	170 - 185 Â°C	338 - 365 Â°F	Huntsman/TMA

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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