

Huntsman IROGRAN® A 80 H 4698 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 80 H 4698 is a transparent thermoplastic polyester-polyurethane for injection molding applications. Additional characteristics of the product are good melt flow and easy demolding also for undercut. Performance Features: Easy demolding Good melt flow High transparency High elasticity Low-temperature flexibilityApplications: For the production of casual shoe soles, o-rings screens, technical parts. Information provided by Huntsman

Order this product through the following link:
http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-80-H-4698-Polyester-Based-TPU-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D995
Melt Index of Compound	50 g/10 min	50 g/10 min	cm ³ /10 min
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	ASTM D2240
Hardness, Shore D	31	31	ASTM D2240
Tensile Strength at Break	47.0 MPa	6820 psi	DIN 53504
Elongation at Break	650 %	650 %	DIN 53504
100% Modulus	0.00590 GPa	0.856 ksi	DIN 53504
300% Modulus	0.0150 GPa	2.18 ksi	DIN 53504
Rebound	42 %	42 %	Bayshore; ASTM D2632
Tear Strength	103 kN/m	590 pli	ASTM D624
Abrasion	30	30	[mm ³]; ISO 4649
Compression Set	25 %	25 %	ASTM D395
	@Temperature 23.0 °C, Time 252000 sec	@Temperature 73.4 °F, Time 70.0 hour	
	40 %	40 %	

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	125 - 180 Â°C	257 - 356 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
	179 - 299 Â°C	354 - 570 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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