

Huntsman IROGRAN® A 70 H 4673 M 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 70 H 4673 M is a soft polyester based thermoplastic polyurethane intended for injection molding applications.

IROGRAN A 70 H 4673 M is part of the HUNTSMAN injection molding product range. It is processable at low temperatures and offers a specially designed, flexible material suitable for moldings. Performance Features: High transparency Soft type Good melt flow Phthalate free High elasticity Easy coloring Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-70-H-4673-M-Polyester-Based-TPU-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D995
Melt Index of Compound	45 g/10 min @Load 5.00 kg, Temperature 190 °C	45 g/10 min @Load 11.0 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	71	71	ASTM D2240
Hardness, Shore D	21	21	ASTM D2240
Tensile Strength at Break	35.0 MPa	5080 psi	DIN 53504
Elongation at Break	880 %	880 %	DIN 53504
100% Modulus	0.00340 GPa	0.493 ksi	DIN 53504
300% Modulus	0.00700 GPa	1.02 ksi	DIN 53504
Tear Strength	45.1 kN/m	257 pli	DIN 53515
Abrasion	35	35	[mm ³]; ISO 4649
Compression Set	34 % @Temperature 23.0 °C, Time 252000 sec	34 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	48 % @Temperature 70.0 °C, Time 86400 sec	48 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Mechanical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Feed Temperature	175 Â°C	347 Â°F	Injection
Front Barrel Temperature	180 Â°C	356 Â°F	Injection
Adapter Temperature	180 Â°C	356 Â°F	Injection
Die Temperature	170 Â°C	338 Â°F	Injection
Melt Temperature	145 - 170 Â°C	293 - 338 Â°F	

Descriptive Properties	Value	Comments
TMA High	165Â°C	
TMA Low	120Â°C	

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