

Huntsman IROGRAN® A 70 H 4714 M TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 70 H 4714 M is a soft polyester based thermoplastic polyurethane intended for injection molding applications. IROGRAN A 70 H 4714 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 Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-70-H-4714-M-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	Injection molded; ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Injection molded; ASTM D955
Melt Index of Compound	30 g/10 min @Load 5.00 kg, Temperature 190 °C	30 g/10 min @Load 11.0 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	68	68	Injection molded parts; ASTM D2240
Hardness, Shore D	20	20	Injection molded parts; ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	0.025" extruded film; DIN 53504
Elongation at Break	770 %	770 %	0.025" extruded film; DIN 53504
100% Modulus	0.00340 GPa	0.493 ksi	0.025" extruded film; DIN 53504
300% Modulus	0.00700 GPa	1.02 ksi	0.025" extruded film; DIN 53504
Tear Strength	45.1 kN/m	257 pli	0.025" extruded film; DIN 53515
Abrasion	30	30	mm ³ , Injection molded; DIN 53516
Compression Set	34 % @Temperature 22.8 °C, Time 252000 sec	34 % @Temperature 73.0 °F, Time 70.0 hour	Injection molded; ASTM D395
	48 % @Temperature 70.0 °C, Time 86400 sec	48 % @Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	120 - 165 Â°C	248 - 329 Â°F	0.025" extruded film,

Processing Properties	Metric	English	Comments
Feed Temperature	175 Â°C	347 Â°F	
Middle Barrel Temperature	180 Â°C	356 Â°F	
Adapter Temperature	180 Â°C	356 Â°F	
Die Temperature	170 Â°C	338 Â°F	

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