

Huntsman IROGRAN® A 75 P 4655 N TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 75 P 4655 N is a black colored polyether based thermoplastic polyurethane intended for injection molding applications. IROGRAN A 75 P 4655 N is a 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: Excellent ambient & low temperature flexibility Short cycle times Phthalate free Good melt flow Easy demolding Excellent hydrolysis & microbial resistance Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-75-P-4655-N-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	Injection molded; ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	Injection molded; ASTM D955
Melt Index of Compound	50 g/10 min @Load 10.0 kg, Temperature 190 °C	50 g/10 min @Load 22.0 lb, Temperature 374 °F	MVR, [cm ³ /10 min]

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73	73	Injection molded parts; ASTM D2240
Hardness, Shore D	23	23	Injection molded parts; ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	0.025" extruded film; DIN 53504
Elongation at Break	820 %	820 %	0.025" extruded film; DIN 53504
100% Modulus	0.00850 GPa	1.23 ksi	0.025" extruded film; DIN 53504
300% Modulus	0.00900 GPa	1.31 ksi	0.025" extruded film; DIN 53504
Tear Strength	45.1 kN/m	257 pli	0.025" extruded film; DIN 53515
Abrasion	60	60	mm ³ , Injection molded; DIN 53516
Compression Set	23 % @Temperature 22.8 °C, Time 252000 sec	23 % @Temperature 73.0 °F, Time 70.0 hour	Injection molded; ASTM D395
	39 % @Temperature 70.0 °C, Time 86400 sec	39 % @Temperature 158 °F, Time 24.0 hour	Injection molded; ASTM D395

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	122 - 155 Â°C	252 - 311 Â°F	0.025" extruded film,

Processing Properties	Metric	English	Comments
Feed Temperature	185 Â°C	365 Â°F	
Middle Barrel Temperature	185 Â°C	365 Â°F	
Adapter Temperature	185 Â°C	365 Â°F	
Die Temperature	190 Â°C	374 Â°F	

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