

Huntsman IROGRAN® A 85 D 4968 Polyester-Based TPU-Injection Extrusion Grade

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

High Hydrolysis resistance and good crystallinity. Suggested for extrusion. Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-D-4968-Polyester-Based-TPU-Injection-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D995
Melt Index of Compound	28 g/10 min @Load 21.6 kg, Temperature 190 °C	28 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	ASTM D2240
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength at Break	49.0 MPa	7110 psi	DIN 53504
Elongation at Break	680 %	680 %	ASTM D412
100% Modulus	0.00650 GPa	0.943 ksi	DIN 53504
300% Modulus	0.0161 GPa	2.34 ksi	DIN 53504
Rebound	38 %	38 %	Bayshore; ASTM D2632
Tear Strength	112 kN/m	640 pli	ASTM D624
Abrasion	25	25	[mm ³]; ISO 4649
Compression Set	21 % @Temperature 23.0 °C, Time 252000 sec	21 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	38 % @Temperature 70.0 °C, Time 86400 sec	38 % @Temperature 158 °F, Time 24.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Melting Point	160 - 175 Å°C	320 - 347 Å°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 Å°C	77.0 - 104 Å°F	Extrusion
	25.0 - 45.0 Å°C	77.0 - 113 Å°F	Injection
Front Barrel Temperature	180 - 205 Å°C	356 - 401 Å°F	Extrusion
Nozzle Temperature	180 - 205 Å°C	356 - 401 Å°F	Extrusion
	185 - 210 Å°C	365 - 410 Å°F	Injection
Adapter Temperature	180 - 205 Å°C	356 - 401 Å°F	Extrusion
Die Temperature	180 - 205 Å°C	356 - 401 Å°F	Extrusion
Mold Temperature	20.0 - 50.0 Å°C	68.0 - 122 Å°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	190-210Å°C	Injection

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