

Huntsman IROGRAN® A 85 P 4394 TPU-Polyether

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

Material Notes:

Introduction: IROGRAN A 85 P 4394 is a high performance polyether based thermoplastic polyurethane intended for extrusion and injection molding applications. IROGRAN A 85 P 4394 is part of the HUNTSMAN technical extrusion product range and offers a specially designed, flexible material with a broad processing window particularly suitable for the preparation of tubing, cable jacketing and technical moldings. Performance Features: High tensile strength Excellent wear performance Excellent hydrolysis & microbial resistance Good low temperature flexibility Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-P-4394-TPU-Polyether.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D995
Melt Flow	50 - 80 g/10 min	50 - 80 g/10 min	Melt Volume Rate (cm ³ /10 min)
Melt Index of Compound	55 g/10 min @Load 21.6 kg, Temperature 190 °C	55 g/10 min @Load 47.6 lb, Temperature 374 °F	cm ³ /10 min

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Hardness, Shore D	36	36	ASTM D2240
Tensile Strength at Break	45.0 MPa	6530 psi	DIN 53504
Elongation at Break	610 %	610 %	ASTM D412
100% Modulus	0.00700 GPa	1.02 ksi	DIN 53504
300% Modulus	0.0120 GPa	1.74 ksi	DIN 53504
Rebound	36 %	36 %	Bayshore; ASTM D2632
Tear Strength	101 kN/m	574 pli	ASTM D624
Abrasion	25	25	[mm ³]; ISO 4649
Compression Set	20 % @Temperature 23.0 °C, Time 252000 sec	20 % @Temperature 73.4 °F, Time 70.0 hour	ASTM D395
	40 %	40 %	

Mechanical Properties	Metric	English	Comments
	@ Temperature 70.0 Â°C, Time 86400 sec	@ Temperature 158 Â°F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
Melting Point	150 - 170 Â°C	302 - 338 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	160 - 200 Â°C	320 - 392 Â°F	Extrusion
Nozzle Temperature	200 - 210 Â°C	392 - 410 Â°F	Injection
Adapter Temperature	175 - 200 Â°C	347 - 392 Â°F	Extrusion
Die Temperature	175 - 205 Â°C	347 - 401 Â°F	Extrusion
Melt Temperature	190 - 205 Â°C	374 - 401 Â°F	Injection
Mold Temperature	20.0 - 70.0 Â°C	68.0 - 158 Â°F	Injection

Descriptive Properties	Value	Comments
Heating Zone	170-210Â°C	Injection

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