

Huntsman IROGRAN® A 92 E 5670 FCM Ester-Based TPU-For Food Contact

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

Material Notes:

Introduction: IROGRAN A 92 E 5670 FCM is a thermoplastic polyester polyurethane for melt calendering. IROGRAN is part of the HUNTSMAN technical extrusion/injection molding product range and offers a specially designed, flexible material with a broad processing window. IROGRAN A 92 E 5670 FCM is a food contact material. Performance Features: High oil resistance High production rate Good melt flow Easy coloring Complies with FDA CFR 175.105 / 177.2600 Applications: Cable jacketing Tubing Technical extrusion Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-E-5670-FCM-Ester-Based-TPU-For-Food-Contact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASDTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Index of Compound	62 g/10 min	62 g/10 min	
	@Load 10.0 kg, Temperature 190 °C	@Load 22.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Hardness, Shore D	38	38	ASTM D2240
Tensile Strength at Break	40.0 MPa	5800 psi	DIN 53504
Elongation at Break	570 %	570 %	DIN 53504
Compression Set	25 %	25 %	
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	ASTM D395
	40 %	40 %	
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	ASTM D395

Processing Properties	Metric	English	Comments
Feed Temperature	195 °C	383 °F	
Front Barrel Temperature	205 °C	401 °F	
Adapter Temperature	210 °C	410 °F	

Die Temperature Processing Properties	210 °C Metric	410 °F English	Comments
Roll Temperature	170 - 190 °C	338 - 374 °F	Front, 32 rpm
	170 - 190 °C	338 - 374 °F	Rear, 27 rpm

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