

Huntsman IROGRAN® A 85 H 4827 TPU-Polyester

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

Material Notes:

Introduction: IROGRAN A 85 H 4827 is a thermoplastic polyester polyurethane for injection molding applications. IROGRAN A 85 H 4827 is part of the HUNTSMAN technical injection molding product range and offers a specially designed, flexible material with a broad processing window.
Performance Features: High wear resistance Medium crystallinity Abrasion resistance Flex resistance Phthalate free

TPU Applications: General Injection molding parts Screens Wheels and rollers Shoe soles
 Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-H-4827-TPU-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	Injection molded parts; ASTM D792
Melt Index of Compound	20 g/10 min	20 g/10 min	
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	Injection molded parts; ASTM D2240
Hardness, Shore D	37	37	Injection molded parts; ASTM D2240
Tensile Strength at Break	50.0 MPa	7250 psi	Injection molded parts; DIN 53504
Elongation at Break	600 %	600 %	Injection molded parts; DIN 53504
100% Modulus	0.00600 GPa	0.870 ksi	Injection molded parts; DIN 53504
300% Modulus	0.0140 GPa	2.03 ksi	Injection molded parts; DIN 53504
Tear Strength	85.0 kN/m	485 pli	Injection molded parts; DIN 53515
Abrasion	20	20	mm ³ , Injection molded; DIN 53516

Processing Properties	Metric	English	Comments
Nozzle Temperature	185 - 195 °C	365 - 383 °F	Injection
Zone 1	87.8 - 93.3 °C	190 - 200 °F	
Zone 2	90.6 - 96.1 °C	195 - 205 °F	
Zone 3	93.3 - 98.9 °C	200 - 210 °F	
Mold Temperature	25.0 - 50.0 °C	77.0 - 122 °F	Injection

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