

IROGRAN® A 85 H 4827

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN A 85 H 4827 is a thermoplastic polyester polyurethane for injection moulding 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

General Information			
Features	General Purpose		
	Good Abrasion Resistance		
	Good Flexibility		
	Good Wear Resistance		
	Non-Phthalate Plasticizer		
	Semi Crystalline		
Uses	Footwear		
	General Purpose		
	Rollers		
	Wheels		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.20	g/cm ³	ASTM D792, DIN 53479
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	20	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, DIN 53505
Shore A, Injection Molded	86		
Shore D, Injection Molded	37		
Mechanical	Nominal Value	Unit	Test Method
Abrasion ²			
--	20	mm ³	DIN 53516

--	20	mm ³	ASTM D395
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ³			DIN 53504
100% Strain	6.00	MPa	
300% Strain	14.0	MPa	
Tensile Stress ⁴ (Break)	50.0	MPa	DIN 53504
Tensile Elongation ⁵ (Break)	600	%	DIN 53504
Tear Strength ⁶	85	kN/m	ISO 34-1
Injection	Nominal Value	Unit	
Drying Temperature			
--	85.0 to 90.0	°C	
Hot Air Dryer	80.0 to 90.0	°C	
Drying Time			
--	3.0	hr	
Hot Air Dryer	3.0	hr	
Dew Point	-30.0	°C	
Rear Temperature	190 to 200	°C	
Middle Temperature	195 to 205	°C	
Front Temperature	200 to 210	°C	
Nozzle Temperature	185 to 195	°C	
Mold Temperature	20.0 to 50.0	°C	
NOTE			
1.	Injection Molded		
2.	Injection Molded		
3.	Injection Molded		
4.	Injection Molded		
5.	Injection Molded		
6.	Injection Molded		

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WECHAT