

IROGRAN® A 85 E 4719

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN A 85 E 4719 is a thermoplastic polyester polyurethane for melt calendering.
IROGRAN is part of the HUNTSMAN technical extrusion and injection molding product range and offers a specially designed, flexible material with a broad processing window.

PERFORMANCE FEATURES

- High wear resistance
- Good melt flow
- High elasticity
- Complies with FDA CFR 175.105 / 177.2600

APPLICATIONS

- Texile Coatings
- Technical molding
- Cable jacketing

General Information			
Features	Good Flow		
	Good Wear Resistance		
	High Elasticity		
	Low Temperature Flexibility		
Uses	Cable Jacketing		
	Coating Applications		
	Textile Applications		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Processing Method	Calendering		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.21	g/cm ³	DIN 53479
Melt Volume-Flow Rate (MVR) (190°C/10.0 kg)	60.0	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, DIN 53505
Shore A, Injection Molded	85		
Shore D, Injection Molded	36		
Mechanical	Nominal Value	Unit	Test Method
Abrasion ²	20	mm ³	DIN 53516
TMA ³			Internal Method

High : 635.0 μm	160	°C	
Low : 635.0 μm	115	°C	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ⁴			
100% Strain	6.69	MPa	ASTM D412
100% Strain	6.00	MPa	DIN 53504
300% Strain	11.7	MPa	ASTM D412, DIN 53504
Tensile Strength ⁵			
Break	28.3	MPa	ASTM D412
Break	35.0	MPa	DIN 53504
Tensile Elongation ⁶			
Break	600	%	ASTM D412
Break	620	%	DIN 53504
Tear Strength ⁷			
--	99.8	kN/m	ASTM D624
--	80	kN/m	DIN 53515
Compression Set ⁸			
23°C, 24 hr	30	%	ASTM D395, ISO 815
70°C, 24 hr	42	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	3.0	hr	
Hopper Temperature	25.0 to 40.0	°C	
Cylinder Zone 1 Temp.	170 to 195	°C	
Cylinder Zone 2 Temp.	170 to 195	°C	
Cylinder Zone 3 Temp.	170 to 195	°C	
Cylinder Zone 4 Temp.	170 to 195	°C	
Cylinder Zone 5 Temp.	170 to 195	°C	
Adapter Temperature	175 to 200	°C	
Die Temperature	175 to 205	°C	
NOTE			
1.	Injection Molded		
2.	Injection Molded		
3.	Extruded Film		
4.	Injection Molded		
5.	Injection Molded		
6.	Injection Molded		
7.	Injection Molded		
8.	Injection Molded		

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