

IROGRAN® A 95 E 4861

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN A 95 E 4861 is a high performance polyester based thermoplastic polyurethane intended for extrusion applications.

IROGRAN A 95 E 4861 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 extruded films.

PERFORMANCE FEATURES

Excellent hydrolysis resistance

High crystallization rate

Good low temperature flexibility

Good processability

General Information			
UL YellowCard	E208646-100609692		
Features	Good Flexibility		
	Good Processability		
	Hydrolysis Resistant		
	Low Temperature Flexibility		
Uses	Film		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.22	g/cm ³	ASTM D792, DIN 53479
Melt Mass-Flow Rate (MFR) (215°C/21.6 kg)	45	g/10 min	
Molding Shrinkage - Flow (Injection Molded)	1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A, Injection Molded	98		ASTM D2240
Shore D, Injection Molded	54		ASTM D2240, DIN 53505
Shore A, Injection Molded	96		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Abrasion ²			
--	27	mm ³	DIN 53516
--	26	mm ³	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ³			
100% Strain	14.3	MPa	ASTM D412
100% Strain	14.0	MPa	DIN 53504
300% Strain	22.8	MPa	ASTM D412

300% Strain	26.0	MPa	DIN 53504
Tensile Strength ⁴			
Break	40.0	MPa	ASTM D412
Break	55.0	MPa	DIN 53504
Tensile Elongation ⁵			
Break	550	%	ASTM D412
Break	530	%	DIN 53504
Tear Strength ⁶			
--	158	kN/m	ASTM D624
--	120	kN/m	ISO 34-1
Compression Set ⁷			
23°C, 70 hr	30	%	ASTM D395, ISO 815
70°C, 24 hr	46	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	3.0	hr	
Hopper Temperature	25.0 to 40.0	°C	
Cylinder Zone 1 Temp.	200 to 215	°C	
Cylinder Zone 2 Temp.	200 to 215	°C	
Cylinder Zone 3 Temp.	200 to 215	°C	
Cylinder Zone 4 Temp.	200 to 215	°C	
Cylinder Zone 5 Temp.	200 to 215	°C	
Adapter Temperature	200 to 215	°C	
Die Temperature	200 to 215	°C	
NOTE			
1.	Injection Molded		
2.	Injection Molded		
3.	Injection Molded		
4.	Injection Molded		
5.	Injection Molded		
6.	Injection Molded		
7.	Injection Molded		

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