

IROGRAN® A 80 H 4698

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN A 80 H 4698 is a transparent thermoplastic polyester-polyurethane for injection moulding applications. Additional characteristics of the product are good melt flow and easy demolding also for undercut.

PERFORMANCE FEATURES

- Easy demolding
- Good melt flow
- High transparency
- High elasticity
- Low-temperature flexibility

APPLICATIONS

For the production of casual shoe soles, o-rings screens, technical parts.

General Information			
Features	Good Flow		
	Good Mold Release		
	High Clarity		
	High Elasticity		
	Low Temperature Flexibility		
Uses	Engineering Parts		
	Footwear		
	Seals		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.20	g/cm³	
Melt Volume-Flow Rate (MVR) (190°C/21.6 kg)	50.0	cm³/10min	
Molding Shrinkage - Flow (Injection Molded)	0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore D, Injection Molded	30		ASTM D2240
Shore A, Injection Molded	81		ISO 868
Shore D, Injection Molded	31		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			DIN 53504
100% Strain	5.90	MPa	
300% Strain	15.0	MPa	

Tensile Stress ³ (Break)	47.0	MPa	DIN 53504
Tensile Elongation ⁴ (Break)	650	%	DIN 53504
Tear Strength ⁵	60	kN/m	ISO 34-1
Compression Set ⁶			ASTM D395, ISO 815
23°C, 24 hr	25	%	
70°C, 24 hr	40	%	
Thermal	Nominal Value	Unit	
Melting Temperature	128 to 180	°C	
Injection	Nominal Value	Unit	
Drying Temperature			
--	100 to 110	°C	
Hot Air Dryer	80.0 to 90.0	°C	
Drying Time			
--	3.0	hr	
Hot Air Dryer	3.0	hr	
Rear Temperature	175 to 190	°C	
Middle Temperature	175 to 190	°C	
Front Temperature	175 to 190	°C	
Nozzle Temperature	180 to 200	°C	
Processing (Melt) Temp	170 to 195	°C	
Mold Temperature	20.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	3.0	hr	
Hopper Temperature	25.0 to 40.0	°C	
Cylinder Zone 1 Temp.	165 to 190	°C	
Cylinder Zone 2 Temp.	165 to 190	°C	
Cylinder Zone 3 Temp.	165 to 190	°C	
Cylinder Zone 4 Temp.	165 to 190	°C	
Cylinder Zone 5 Temp.	165 to 190	°C	
Adapter Temperature	175 to 195	°C	
Die Temperature	175 to 200	°C	
NOTE			
1.	Injection Molded		
2.	Injection Molded		
3.	Injection Molded		
4.	Injection Molded		
5.	Injection Molded		
6.	Injection Molded		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT