

IROGRAN® A 80 H 4826

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN A 80 H 4826 is a transparent thermoplastic polyester-polyurethane for injection moulding applications. Additional characteristics of this product are excellent mechanical properties and high tear strength.

PERFORMANCE FEATURES

- high wear resistance
- medium crystallinity
- low hardness
- increase of productivity
- easy coloring

APPLICATIONS

For the production of general injection molding, screens, wheels and rollers, buffers, shoeheel lifts.

General Information			
Features	Good Colorability		
	Good Processability		
	Good Tear Strength		
	Good Wear Resistance		
	Low Hardness		
	Semi Crystalline		
Uses	Footwear		
	Rollers		
	Wheels		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 2781
Apparent Density	0.69	g/cm ³	
Melt Volume-Flow Rate (MVR) (190°C/21.6 kg)	20.0	cm ³ /10min	
Molding Shrinkage	0.85	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	81		
Shore D	30		
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	25.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress			ISO 37
100% Strain	5.00	MPa	
300% Strain	10.1	MPa	
Tensile Stress (Break)	55.0	MPa	ISO 37
Tensile Elongation (Break)	600	%	ISO 37
Tear Strength	80	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 70 hr	20	%	
70°C, 24 hr	35	%	
Bayshore Resilience	44	%	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	165 to 173	°C	TMA
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	2.0	hr	
Dew Point	-22.0	°C	
Rear Temperature	195	°C	
Middle Temperature	200	°C	
Front Temperature	205	°C	
Nozzle Temperature	190	°C	

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

