

# IROGRAN® A 88 H 4622

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

## Message:

IROGRAN A 88 H 4622 is a black colored thermoplastic polyether/polyester-polyurethane for injection moulding and extrusion applications. Additional characteristics of the product are high extrudability and low-adhesion surfaces.

### PERFORMANCE FEATURES

High hydrolysis resistance

Low-adhesion surfaces

Good melt flow

High production rates

High wear resistance

### APPLICATIONS

For the production of jackets for high pressure hoses, jacket material for cables hoses, profiles.

General Information	
Features	Good Flow
	Good Wear Resistance
	Hydrolysis Resistant
Uses	Cable Jacketing
	Hose
	Profiles
RoHS Compliance	Contact Manufacturer
Appearance	Black
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>			
--	1.16	g/cm <sup>3</sup>	
--	1.12	g/cm <sup>3</sup>	
Melt Volume-Flow Rate (MVR) (190°C/21.6 kg)	75.0	cm <sup>3</sup> /10min	
Molding Shrinkage - Flow (Injection Molded)	4.0E-3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240, ISO 868
Shore A, Injection Molded	88		
Shore D, Injection Molded	36		
Mechanical	Nominal Value	Unit	Test Method
Abrasion <sup>2</sup>	45	mm <sup>3</sup>	ISO 4649

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>3</sup>			
100% Strain	8.00	MPa	ASTM D412
100% Strain	7.00	MPa	DIN 53504
300% Strain	14.0	MPa	ASTM D412
300% Strain	11.0	MPa	DIN 53504
Tensile Strength <sup>4</sup>			
Break	35.0	MPa	ASTM D412
Break	39.0	MPa	DIN 53504
Tensile Elongation <sup>5</sup> (Break)	650	%	ASTM D412, DIN 53504
Tear Strength <sup>6</sup>			
--	65.0	kN/m	ASTM D624
--	65	kN/m	ISO 34-1
Compression Set <sup>7</sup>			
23°C, 24 hr	25	%	ASTM D395, ISO 815
70°C, 24 hr	40	%	
Thermal	Nominal Value	Unit	
Melting Temperature	122 to 175	°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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### 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

