

# IROGRAN® A 85 P 4722

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

## Message:

IROGRAN A 85 P 4722 is a halogen-free thermoplastic-polyurethane for injection moulding and extrusion applications.

Additional characteristics of the product are good microbial resistance, high low-temperature flexibility, especially suitable for the substructure in cable construction.

### PERFORMANCE FEATURES

Good hydrolysis resistance

Excellent processability

Good abrasion resistance

Halogen free

General Information			
Features	Good Abrasion Resistance		
	Good Processability		
	Halogen Free		
	Low Temperature Flexibility		
	Microbe Resistant		
Uses	Cable Jacketing		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.18	g/cm <sup>3</sup>	
Melt Volume-Flow Rate (MVR) (190°C/21.6 kg)	< 100	cm <sup>3</sup> /10min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A, Injection Molded	85		ASTM D2240
Shore A, Injection Molded	88		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Abrasion <sup>2</sup>	< 30	mm <sup>3</sup>	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>3</sup> (Break)	> 35.0	MPa	DIN 53504
Tensile Elongation <sup>4</sup> (Break)	> 600	%	DIN 53504
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
Dew Point	-30.0	°C
Rear Temperature	175 to 195	°C
Middle Temperature	175 to 195	°C
Front Temperature	175 to 195	°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	

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