

# IROGRAN® A 70 H 4714 M

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

## Message:

IROGRAN A 70 H 4714 M is a soft polyester based thermoplastic polyurethane intended for injection moulding applications.

IROGRAN A 70 H 4714 M is part of the HUNTSMAN injection moulding product range. It is processable at low temperatures and offers a specially designed, flexible material suitable for mouldings.

### PERFORMANCE FEATURES

High transparency

Soft type

Good melt flow

Phthalate free

High elasticity

Easy coloring

General Information			
Features	Good Colorability		
	Good Flexibility		
	Good Flow		
	Good Processability		
	High Clarity		
	High Elasticity		
	Non-Phthalate Plasticizer		
	Soft		
RoHS Compliance		Contact Manufacturer	
Forms		Pellets	
Processing Method		Injection Molding	
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.16	g/cm <sup>3</sup>	ASTM D792, DIN 53479
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	30.0	cm <sup>3</sup> /10min	
Molding Shrinkage - Flow (Injection Molded)	0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A, Injection Molded	68		ASTM D2240, DIN 53505
Shore D, Injection Molded	20		ASTM D2240
Shore D, Injection Molded	21		DIN 53505
Mechanical	Nominal Value	Unit	Test Method
Abrasion <sup>2</sup>	30	mm <sup>3</sup>	DIN 53516
TMA <sup>3</sup>			Internal Method
High : 635.0 µm	165	°C	
Low : 635.0 µm	120	°C	

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>4</sup>			DIN 53504
100% Strain, 0.635 mm	3.40	MPa	
300% Strain, 0.635 mm	7.00	MPa	
Tensile Stress <sup>5</sup> (Break, 0.635 mm)	45.0	MPa	DIN 53504
Tensile Elongation <sup>6</sup> (Break, 0.635 mm)	770	%	DIN 53504
Tear Strength <sup>7</sup> (0.635 mm)	45	kN/m	DIN 53515
Compression Set <sup>8</sup>			ASTM D395, DIN 53517
23°C, 24 hr	34	%	
70°C, 24 hr	48	%	

Injection	Nominal Value	Unit
Drying Temperature		
--	80.0	°C
Hot Air Dryer	90.0	°C
Drying Time		
--	3.0	hr
Hot Air Dryer	3.0	hr
Dew Point	-30.0	°C
Hopper Temperature	175	°C
Rear Temperature	180	°C
Middle Temperature	180	°C
Front Temperature	180	°C
Nozzle Temperature	180	°C

NOTE	
1.	Injection Molded
2.	Injection Molded
3.	Extruded Film
4.	Extruded Film
5.	Extruded Film
6.	Extruded Film
7.	Extruded Film
8.	Injection Molded

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