

# IROGRAN® CA116-203

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

## Message:

IROGRAN CA116-203 is a high performance polyester based thermoplastic polyurethane intended for flat die extrusion applications.

IROGRAN CA116-203 is part of the HUNTSMAN film and sheet product range and offers a specially designed, flexible plasticizer free product suitable for the preparation of extruded films with enhanced adhesion following lamination.

### PERFORMANCE FEATURES

Low melt temperature

High crystallization rate

Good low temperature flexibility

Good processability

### APPLICATIONS

Adhesive film

Lamination

General Information			
Features	Good Adhesion		
	Good Flexibility		
	Good Processability		
	Low Temperature Flexibility		
Uses	Film		
	Laminates		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.15	g/cm <sup>3</sup>	ASTM D792, DIN 53478
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	59	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Injection Molded)	95		ASTM D2240, DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			
100% Strain, 0.635 mm	5.45	MPa	ASTM D412
100% Strain, 0.635 mm	3.00	MPa	DIN 53504
300% Strain, 0.635 mm	6.27	MPa	ASTM D412
300% Strain, 0.635 mm	4.00	MPa	DIN 53504
Tensile Strength <sup>3</sup>			
Break, 0.635 mm	10.0	MPa	ASTM D412
Break, 0.635 mm	17.2	MPa	DIN 53504
Tensile Elongation <sup>4</sup>			
Break, 0.635 mm	650	%	ASTM D412

Break, 0.635 mm	600	%	DIN 53504
Tear Strength <sup>5</sup>			
0.635 mm	80.6	kN/m	ASTM D624
0.635 mm	110	kN/m	DIN 53515
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	80.0 to 110	°C	Internal Method
Extrusion	Nominal Value	Unit	
Drying Temperature	40.0	°C	
Drying Time	4.0	hr	
Hopper Temperature	149	°C	
Cylinder Zone 1 Temp.	154	°C	
Cylinder Zone 2 Temp.	154	°C	
Cylinder Zone 3 Temp.	154	°C	
Cylinder Zone 4 Temp.	154	°C	
Cylinder Zone 5 Temp.	154	°C	
Adapter Temperature	154	°C	
Die Temperature	154	°C	
NOTE			
1.	Injection Molded		
2.	Extruded Film		
3.	Extruded Film		
4.	Extruded Film		
5.	Extruded Film		

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