

IROGRAN® CA116-201

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN CA116-201 is a high performance polyester based thermoplastic polyurethane intended for flat die extrusion applications.

IROGRAN CA116-201 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.

PERFORMANCE FEATURES

Low melt temperature

High crystallization rate

Good low temperature flexibility

Good processability

APPLICATIONS

Adhesive film

Lamination

General Information			
Features	Good Processability		
	Low Temperature Flexibility		
Uses	Film		
	Laminates		
	Sheet		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Die Molding		
	Extrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	15	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A, Injection Molded	95		ASTM D2240
Injection Molded	95		DIN 53505
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			ASTM D412
100% Strain, 0.635 mm	6.07	MPa	
300% Strain, 0.635 mm	6.86	MPa	
Tensile Strength ³			
Break, 0.635 mm	24.8	MPa	ASTM D412

Break, 0.635 mm	33.0	MPa	DIN 53504
Tensile Elongation ⁴			
Break, 0.635 mm	600	%	ASTM D412
Break, 0.635 mm	400	%	DIN 53504
Tear Strength ⁵			
0.635 mm	92.8	kN/m	ASTM D624
6.35 mm	75	kN/m	DIN 53515
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	80.0 to 150	°C	
TMA ⁶ (635.0 μm)	90 to 120	°C	Internal Method
Extrusion	Nominal Value	Unit	
Drying Temperature	4.44	°C	
Drying Time	4.0	hr	
Hopper Temperature	160	°C	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	170	°C	
Cylinder Zone 3 Temp.	170	°C	
Cylinder Zone 4 Temp.	170	°C	
Cylinder Zone 5 Temp.	170	°C	
Adapter Temperature	170	°C	
Die Temperature	170	°C	
NOTE			
1.	Injection Molded		
2.	Extruded Film		
3.	Extruded Film		
4.	Extruded Film		
5.	Extruded Film		
6.	Extruded Film		

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