

Sasol Polymers PP CHR440

Polypropylene Impact Copolymer

Sasol Polymers

Message:

Features

Low flow

Recommended for applications where superior impact properties and toughness are required at ambient temperatures as well as below 0°C.

Contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times

Applications

Injection moulding

Industrial crates and boxes

Transport containers

Automotive components

Extrusion

Twin walled corrugated sheeting

Monolayer or composite thermoforming films

Pipe and profile extrusion

Blow moulding

Blow moulding of containers up to 1 litre in capacity

General Information	
Additive	Nucleating agent
	Unspecified additive
Features	Nucleated
	Low Temperature Flexibility
	Impact copolymer
	Impact resistance, high
	Low liquidity
	Low temperature impact resistance
	Good toughness
	Compliance of Food Exposure
Uses	Films
	Wave plate
	Blow molding applications
	Piping system
	Application in Automobile Field
	Container
	Profile
	Loading box
Agency Ratings	EC 1935/2004
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)
	FDA 21 CFR 177.1520(c) 3.1a

Forms	Particle		
Processing Method	Film extrusion		
	Blow molding		
	Pipeline extrusion molding		
	Sheet extrusion molding		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.4	%	ISO 294-4
Flow direction	1.5	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	50.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1350	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	7.0	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m²	ISO 179/1eA
0°C	9.0	kJ/m²	ISO 179/1eA
23°C	> 50	kJ/m²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	82.0	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A120
--	62.0	°C	ISO 306/B120
Melting Temperature	163	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Hopper Temperature	40.0 - 60.0	°C	
Rear Temperature	180 - 260	°C	
Middle Temperature	220 - 280	°C	

Front Temperature	240 - 280	°C
Nozzle Temperature	220 - 280	°C
Processing (Melt) Temp	220 - 280	°C
Mold Temperature	20.0 - 60.0	°C

Injection instructions

Zone 4: 240 to 280°C

Extrusion	Nominal Value	Unit
Hopper Temperature	40.0 - 60.0	°C
Cylinder Zone 1 Temp.	220 - 280	°C
Cylinder Zone 2 Temp.	240 - 280	°C
Cylinder Zone 3 Temp.	240 - 280	°C
Cylinder Zone 4 Temp.	240 - 280	°C
Cylinder Zone 5 Temp.	240 - 280	°C
Melt Temperature	220 - 280	°C
Die Temperature	240 - 260	°C

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