

Sasol Polymers PP CMR348

Polypropylene Impact Copolymer

Sasol Polymers

Message:

Features

Medium flow

Specifically recommended for the manufacture of cylindrical containers up to 5 litres in capacity

Excellent top loading performance as well as good toughness

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

Paint containers

Household and domestic articles

Outdoor stadium seating

Furniture components

General Information			
Additive	Nucleating agent		
	Antistatic property		
	Unspecified additive		
Features	Nucleated		
	Impact copolymer		
	Antistatic property		
	Medium liquidity		
	Good toughness		
	Compliance of Food Exposure		
Uses	Outdoor furniture		
	Furniture		
	Household goods		
	Container		
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	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.5	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4

Vertical flow direction	1.3	%	ISO 294-4
Flow direction	1.4	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	62.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	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	6.0	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.5	kJ/m ²	ISO 179/1eA
0°C	5.0	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	90.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A120
--	68.0	°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			

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