

Sasol Polymers PP CMR648

Polypropylene Impact Copolymer

Sasol Polymers

Message:

Features

Medium flow

Recommended for use in applications where superior impact properties and toughness are required

Excellent balance between impact and stiffness properties

Excellent impact toughness properties at low temperatures (-30°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

Bottle crates

Dairy and industrial crates

Transport and storage containers

Buckets

Folding boxes

Tool cases

Garden tools

General Information	
Additive	Nucleating agent
	Antistatic property
	Unspecified additive
Features	Nucleated
	Low Temperature Flexibility
	Impact copolymer
	Antistatic property
	Impact resistance, high
	Medium liquidity
	Low temperature impact resistance
	Good toughness
	Compliance of Food Exposure
Uses	Lawn and Garden Equipment
	Tools/Parts Box
	Container
	Loading box
	Shipping 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	0.904	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	45.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1050	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	21.0	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	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.5	kJ/m ²	ISO 179/1eA
0°C	10	kJ/m ²	ISO 179/1eA
23°C	50	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	80.0	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	144	°C	ISO 306/A120
--	58.0	°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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

