

Sasol Polymers PP CTV448

Polypropylene Impact Copolymer

Sasol Polymers

Message:

Features

Very high flow

Narrow molecular weight distribution

Particularly suitable for injection moulding of thin walled articles with long flow paths

Good impact toughness properties in low temperature applications

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

Yoghurt cups

Margarine tubs

Aerosol dust covers

Household and domestic articles

Thin walled containers

Basins

Laundry baskets

General Information	
Additive	Nucleating agent
	Antistatic property
	Unspecified additive
Features	Nucleated
	Impact copolymer
	Antistatic property
	High liquidity
	Low temperature impact resistance
	Compliance of Food Exposure
	Narrow molecular weight distribution
Uses	Thin wall parts
	Thin wall container
	Household goods
	Container
	Food 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)	50	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.2	%	ISO 294-4
Flow direction	1.2	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	48.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	23.0	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	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	ISO 179/1eA
0°C	5.5	kJ/m ²	ISO 179/1eA
23°C	8.0	kJ/m ²	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			
--	148	°C	ISO 306/A120
--	65.0	°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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