

Sasol Polymers PP CPV340

Polypropylene Impact Copolymer

Sasol Polymers

Message:

Features

High flow

Narrow molecular weight distribution

Suitable for injection moulding of thin walled articles, requiring medium impact and stiffness

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

Stadium seating

Household and domestic articles

Caps and closures

Boxes and containers

Indoor furniture

Cosmetic containers

General Information			
Additive	Nucleating agent		
	Unspecified additive		
Features	Nucleated		
	Rigid, good		
	Impact copolymer		
	High liquidity		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
	Medium impact resistance		
Uses	Thin wall parts		
	Shield		
	Furniture		
	Household goods		
	Container		
	Shell		
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)	16	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.3	%	ISO 294-4
Flow direction	1.3	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	60.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	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	6.5	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.8	kJ/m ²	ISO 179/1eA
0°C	3.5	kJ/m ²	ISO 179/1eA
23°C	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	88.0	°C	ISO 75-2/B
1.8 MPa, not annealed	51.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ISO 306/A120
--	67.0	°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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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

