

Sasol Polymers PP ESV265

Polypropylene Random Copolymer

Sasol Polymers

Message:

Features

High flow

Narrow molecular weight distribution

Particularly suitable for injection moulding of articles where good transparency (high clarity) and excellent surface gloss are required

Contains nucleating agent which ensures rapid crystallisation, resulting in improved cycle times due to shorter cooling times

Applications

Food containers

Cosmetic containers

Household and domestic articles

Caps and closures

Aerosol dust covers

Stationery items

General Information	
Additive	Nucleating agent demoulding Unspecified additive
Features	Nucleated Highlight High liquidity Definition, high Compliance of Food Exposure Good demoulding performance Random copolymer Narrow molecular weight distribution
Uses	Shield Household goods Container Food container Shell Stationery
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)	35	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	50.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	11	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.5	kJ/m ²	ISO 179/1eA
23°C	5.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	70.0	°C	ISO 75-2/B
1.8 MPa, not annealed	46.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	130	°C	ISO 306/A120
--	70.0	°C	ISO 306/B120
Melting Temperature	150	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Haze			ISO 14782
1000 µm, injection molding	6.0	%	ISO 14782
2000 µm, injection molding	17	%	ISO 14782
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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