

Sasol Polymers PP HTV145

Polypropylene Homopolymer

Sasol Polymers

Message:

Features

Very high flow

Narrow molecular weight distribution

Suitable for the injection moulding of thin walled articles with high flow path / wall thickness ratios

Contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times

Suitable for use in extrusion coating processes where the grade offers melt curtain stability and less necking

Applications

Injection moulding

Food containers

Caps and closures

Pharmaceutical containers

Thin walled packaging

Extrusion

Extrusion coating of woven PP cloth

General Information	
Additive	Nucleating agent
	demoulding
	Unspecified additive
Features	Nucleated
	Homopolymer
	High liquidity
	Compliance of Food Exposure
	Good demoulding performance
	Narrow molecular weight distribution
Uses	Thin wall packaging
	Thin wall parts
	Shield
	Container
	Food container
	Shell
Agency Ratings	Fabric coating
	EC 1935/2004
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)
Forms	FDA 21 CFR 177.1520(c) 3.1a
	Particle

Processing Method	Extrusion coating		
	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	75.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	8.5	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	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	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A120
--	92.0	°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			
Extrusion	Nominal Value	Unit	
Hopper Temperature	40.0 - 60.0	°C	
Cylinder Zone 1 Temp.	220 - 300	°C	

Cylinder Zone 2 Temp.	260 - 300	°C
Cylinder Zone 3 Temp.	260 - 300	°C
Cylinder Zone 4 Temp.	260 - 300	°C
Cylinder Zone 5 Temp.	260 - 300	°C
Melt Temperature	240 - 300	°C
Die Temperature	260 - 300	°C

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