

Sasol Polymers PP HRV100

Polypropylene Homopolymer

Sasol Polymers

Message:

Features

High flow

Narrow molecular weight distribution

Suitable for injection moulded products where rigidity and shorter cycle times are required

Offers easy extrusion processability when used for producing:

Staple fibre in the range 4-40 denier per filament on short spin integrated lines

Continuous filament (CF) production on multi position spin / draw / wind or short spin / warp / wind processes

Applications

Injection moulding

Household and domestic articles

Caps and closures

Cosmetic and toiletry components

Extrusion

Narrow weave strapping

Sewing yarns

General Information	
Additive	Unspecified additive
Features	Homopolymer
	Workability, good
	Fast molding cycle
	High liquidity
	Compliance of Food Exposure
	Narrow molecular weight distribution
	Medium hardness
Uses	staple fiber
	Shield
	Cosmetics
	Household goods
	Belt material
	Shell
	Filament
	Line
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	Extrusion

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)	22	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	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	9.0	%	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 (23°C)	2.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	83.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ISO 306/A120
--	88.0	°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.	200 - 280	°C	
Cylinder Zone 2 Temp.	240 - 280	°C	

Cylinder Zone 3 Temp.	240 - 280	°C
Cylinder Zone 4 Temp.	240 - 280	°C
Cylinder Zone 5 Temp.	220 - 280	°C
Melt Temperature	220 - 280	°C
Die Temperature	220 - 240	°C

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