Sasol Polymers PP HRV140

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
The grade is produced to a wider than normal product specification
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
Caps and closures
Cosmetic and toiletry components
Household and domestic articles

General Information	
Additive	Nucleating agent
	Unspecified additive
Features	Nucleated
	Homopolymer
	Fast molding cycle
	High liquidity
	Compliance of Food Exposure
	Narrow molecular weight distribution
	Medium hardness
Uses	Shield
	Cosmetics
	Household goods
	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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	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	73.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1600	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	8.0	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1550	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	3.0	kJ/m^2	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	84.0	°C	ISO 75-2/B
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A120
--	89.0	°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

Recommended distributors for this material

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