Sasol Polymers PP HNR100

Polypropylene Homopolymer

Sasol Polymers

Message:

Features
High flow
Suitable for injection moulded products where rigidity and shorter cycle times are required
Available in tighter production specification (HNQ100), specifically suitable for extrusion applications (medium to high denier staple fibre, and continuous multifilament), or where deemed beneficial to end product properties
Applications
Injection moulding
Caps and closures
Cosmetic and toiletry components
Household and domestic articles
Outdoor furniture
Extrusion
Filtration cloth
Sewing yarns
Narrow weave strapping
Hair braids

General Information	
Additive	Unspecified additive
Features	Homopolymer
	Fast molding cycle
	High liquidity
	Compliance of Food Exposure
	Medium hardness
Uses	Outdoor furniture
	Shield
	Cosmetics
	Household goods
	Filter material
	Belt material
	Shell
	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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.3	%	ISO 294-4
Flow direction	1.4	%	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	1550	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	8.5	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	2.8	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A120
--	90.0	°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

Recommended distributors for this material

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