

Sasol Polymers PP HNR101

Polypropylene Homopolymer

Sasol Polymers

Message:

Features

High flow

Suitable for short spin and long spin staple fibre applications

Offers easy extrusion processability when used for producing:

Medium to high denier staple fibre

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

Applications

Extrusion

Needle punched carpets

Filtration cloth

Sewing yarns

Narrow weave strapping

General Information			
Additive	Anti-gas fading		
Features	Food Contact Acceptable		
	Gas-fading Resistant		
	Good Processability		
	High Flow		
	Homopolymer		
Uses	Filtration Media		
	Staple Fibers		
	Strapping		
	Yarn		
Agency Ratings	EC 1935/2004		
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
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	%	
Break	> 50	%	
Flexural Modulus	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.8	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	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
Extrusion	Nominal Value	Unit	
Hopper Temperature	40.0 to 60.0	°C	
Cylinder Zone 1 Temp.	200 to 280	°C	
Cylinder Zone 2 Temp.	240 to 280	°C	
Cylinder Zone 3 Temp.	240 to 280	°C	
Cylinder Zone 4 Temp.	240 to 280	°C	
Cylinder Zone 5 Temp.	220 to 280	°C	
Melt Temperature	220 to 280	°C	
Die Temperature	220 to 240	°C	

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