

Sasol Polymers PP HNQ100

Polypropylene Homopolymer

Sasol Polymers

Message:

Sasol Polymers PP HNQ100 is a medium flow polypropylene homopolymer with a standard additive formulation.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Homopolymer		
	Medium Flow		
Uses	Fabrics		
	Filaments		
	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	75.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	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	9.0	%	
Break	> 50	%	
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, 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.	220 to 280	°C	
Cylinder Zone 2 Temp.	220 to 260	°C	
Cylinder Zone 3 Temp.	230 to 260	°C	
Cylinder Zone 4 Temp.	240 to 270	°C	
Cylinder Zone 5 Temp.	220 to 260	°C	
Melt Temperature	220 to 280	°C	
Die Temperature	220 to 240	°C	

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