

Sasol Polymers PP HLR102

Polypropylene Homopolymer

Sasol Polymers

Message:

- Features
- Medium flow
- Low water carry over during the extrusion process
- Particularly suitable for processing on high speed tape extrusion lines
- Applications
- Extrusion
- Production of raffia tapes as used in the manufacture of woven fabric
- Block-bottom cement bags
- Sacks and bags
- Flexible intermediate bulk containers (FIBC's)
- Injection moulding
- Domestic, industrial and general purpose articles

General Information			
Additive	Processing stabilizer		
Features	Homopolymer		
	Good processing stability		
	Medium liquidity		
	Compliance of Food Exposure		
	Low water portability		
Uses	Strap		
	Bags		
	Industrial application		
	Household goods		
	Container		
	General		
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)	5.3	g/10 min	ISO 1133

Molding Shrinkage			ISO 294-4
Vertical flow direction	1.4	%	ISO 294-4
Flow direction	1.5	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	72.0	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	9.0	%	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)	3.5	kJ/m ²	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.	220 - 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.	240 - 280	°C	
Melt Temperature	220 - 280	°C	
Die Temperature	240 - 260	°C	

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