Sasol Polymers PP HKR102

Polypropylene Homopolymer

Sasol Polymers

Message:

Features
Low flow
Low water carry over during the extrusion process
Suitable for high strength technical articles requiring superior mechanical properties
Available in narrow viscosity range (HKQ102)
Applications
Extrusion
Woven industrial fabric for high strength products
Carpet backing
Sacks and bags
Flexible intermediate bulk containers (FIBC's)
Monofilaments
Packaging strapping
Injection moulding
Domestic, industrial and general purpose articles

General Information	
Additive	Processing stabilizer
Features	High strength Homopolymer Good processing stability Low liquidity Compliance of Food Exposure Low water portability
Uses	Bags monofilament Carpet backing Industrial application Household goods Belt material Container General Fabric
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

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	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	1600	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	34.5	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	1550	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	3.5	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.	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

Recommended distributors for this material

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