

Sasol Polymers PP HHR102

Polypropylene Homopolymer

Sasol Polymers

Message:

Features

Low flow

Low water carry over during the extrusion process

Good mechanical strength and properties

Suitable for moulding of thick walled general purpose articles

Applications

Extrusion

Fine slit film tape for woven and packaging fabric, e.g. heavy duty bags or flexible intermediate bulk containers (FIBC's)

Packaging strapping

Flat sheet for use in thermoforming applications

Monofilaments for use in ropes, twines, nets and bristles

Coarse slit film tape for ropes and twines

Injection moulding

Domestic, industrial and general purpose articles

Blow moulding

Mouldings up to 1 litre in capacity

General Information	
Additive	Processing stabilizer
Features	Homopolymer
	Good processing stability
	Good strength
	Low liquidity
	Compliance of Food Exposure
	Low water portability
	General
Uses	Films
	monofilament
	Industrial application
	Thick wall fittings (parts)
	Household goods
	Belt material
	Sheet
	General
Agency Ratings	Heavy packing bag
	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	Film extrusion		
	Blow molding		
	Extrusion		
	Sheet extrusion molding		
	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)	2.0	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	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	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	%	ISO 527-2/1A/50
Fracture	> 50	%	ISO 527-2/1A/50
Flexural Modulus	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	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

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