

# Sasol Polymers PP HHR102

Polypropylene Homopolymer

Sasol Polymers

**PROSPECTOR**<sup>®</sup>

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## Technical Data

### Product Description

#### 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

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Processing Stabilizer
Features	• Good Processing Stability • Good Strength • Homopolymer • Low Flow • Low Water Carryover
Uses	• Film • General Purpose • Heavy-duty Bags • Household Goods • Industrial Applications • Monofilaments • Sheet • Strapping • Thick-walled Parts
Forms	• Pellets
Processing Method	• Blow Molding • Extrusion • Film Extrusion • Injection Molding • Sheet Extrusion

Physical	Nominal Value Unit	Test Method
Density	0.905 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0 g/10 min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.4 %	
Flow	1.5 %	

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 %	
Break	> 50 %	
Flexural Modulus	1600 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 kJ/m <sup>2</sup>	ISO 179/1eA

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness <sup>3</sup>	70.0 MPa	ISO 2039-1



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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

Injection	Nominal Value Unit
Hopper Temperature	40 to 60 °C
Rear Temperature	180 to 260 °C
Middle Temperature	220 to 280 °C
Front Temperature	240 to 280 °C
Nozzle Temperature	220 to 280 °C
Processing (Melt) Temp	220 to 280 °C
Mold Temperature	20 to 60 °C

### Injection Notes

Zone 4: 240 to 280°C

Extrusion	Nominal Value Unit
Hopper Temperature	40 to 60 °C
Cylinder Zone 1 Temp.	220 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.	240 to 280 °C
Melt Temperature	220 to 280 °C
Die Temperature	240 to 260 °C

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> HB



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### Where to Buy

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#### Supplier

##### Sasol Polymers

Randburg, South Africa

Telephone: +27-11-790-1412

Web: <http://www.sasol.com/>

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#### Distributor

##### Nexeo Solutions - Europe

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

Telephone: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

Availability: Austria, Belgium, Bulgaria, Czech Republic, France, Germany, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Switzerland, United Kingdom

##### Osterman & Company

Telephone: 800-914-4437

Web: <http://www.osterman-co.com/>

Availability: North America

