Product Data Sheet

HKR102

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Information

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MFR 3.5*g*/10 *min*

Sasol Polymers PP HKR102

is a low flow polypropylene homopolymer. It is formulated with a high processing stabilisation package and displays low water carry over during the extrusion process.

Sasol Polymers PP HKQ102

is specially selected for a narrow viscosity range (MFR 3.0g/10min)

Injection moulding:

Suitable for injection moulding of high strength technical articles which require superior mechanical properties such as:

- · Automotive components
- Industrial components
- Household and domestic articles

Extrusion:

Sasol Polymers PP HKR102 is particularly suitable for the industrial fabric market where it is utilised to produce tape with ideal tensile properties for weaving of industrial fabrics.

Sasol Polymers

Polypropylene Business

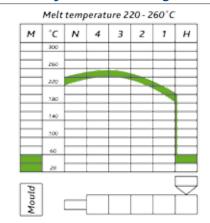
Typical applications are:

- Carpet backing
- Sacks and bags
- Flexible intermediate bulk containers (FIBC'S)
- Mining applications

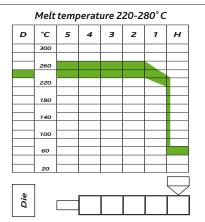
- Other applications are:
- Package strapping
- Monofilaments

Typical processing temperatures

Injection moulding



Extrusion



Cooling water (Chill roll) 15-30°C Cooling water (Water bath) 15-40°C Cooling water (Monofilaments) 60°C





Sasol Polymers PP HKR102

Typical values, not to be construed as specifications.

	VALUE	UNIT	TEST METHOD
Rheological properties			
Melt mass-flow rate - MFR (230/2.16)	3.5	g/10 min	ISO 1133
Moulding Shrinkage - S _{Mp} / S _{Mn}	1.5 / 1.4	%	ISO 294-4
Mechanical properties			
Tensile Modulus of Elasticity	1450	MPa	ISO 527-2/1A/1
Tensile Stress at Yield	35	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9.0	%	ISO 527-2/1A/50
Tensile Strain at Break	>50	%	ISO 527-2/1A/50
Charpy Notched Impact Strength (23°C)	3.0	k]/m²	ISO 179-1/1eA
Ball Indentation Hardness - HB	72	N/mm²	ISO 2039-1
Thermal properties			
Melting Temperature - DSC	163	°C	ISO 11357-3
Heat Deflection Temperature - HDT/A (1.8 MPa)	53	°C	ISO 75-2
Heat Deflection Temperature - HDT/B (0.45 MPa)	85	°C	ISO 75-2
Vicat Softening Temperature - VST/A 120 (10N)	154	°C	ISO 306
Vicat Softening Temperature - VST/ B 120 (50N)	90	°C	ISO 306
Other properties			
Density	0.905	g/cm³	ISO 1183-1