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**Sasol Polymers
Polypropylene Business**

MFR 12 a/10min

Sasol Polymers PP HNR100

is a high flow polypropylene homopolymer.

Sasol Polymers PP HNO100

is produced to a tighter production specification. The grade is specifically recommended for extrusion applications or where deemed beneficial to end product properties.

Injection moulding

Sasol Polymers PP HNR100 is a general purpose injection moulding grade suitable for use in products where rigidity and shorter cycle times are required.

Typical applications are:

- Domestic containers
- Caps and closures
- Cosmetic and toiletry components
- Multi-cavity mouldings
- Household articles
- Outdoor furniture

Extrusion

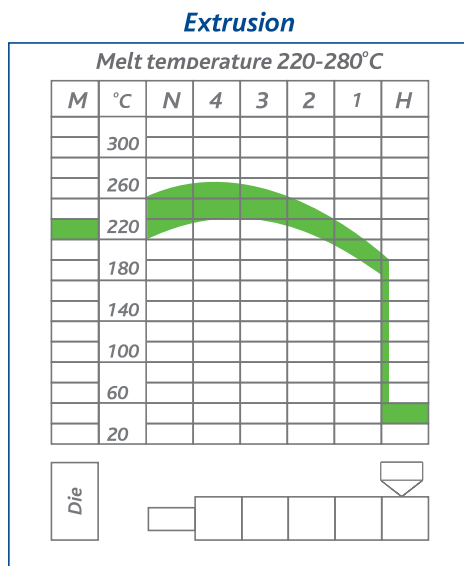
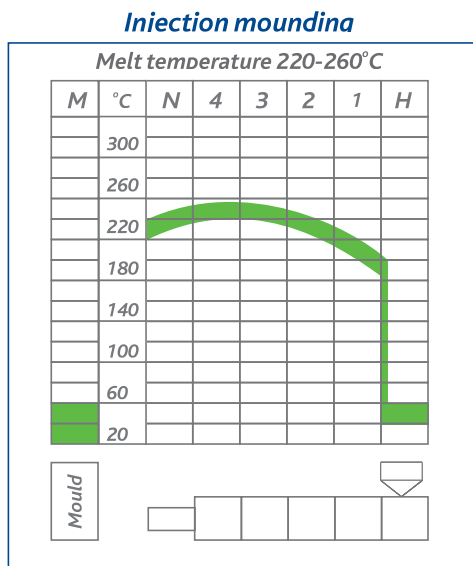
This product offers easy processability when used for producing:

- Medium to high denier staple fibre on either short spin or long spin equipment
- Continuous multifilament (CF) on multi position spin/draw/wind or short spin/warp draw/wind processes.

Typical applications are:

- Filtration cloth
- Sewing yarns
- Narrow weave strapping
- Hair braids

Typical processing temperatures



Sasol Polymers PP HNR100

Typical values, not to be construed as specifications.

	Value	Unit	Test method
Rheological properties			
Melt mass-flow rate - MFR (230/2.16)	12	g/10min	ISO 1133
Mould shrinkage - S_{M_D} / S_{M_n}	1.4 / 1.3	%	ISO 294-4
Mechanical properties			
Tensile modulus of elasticity	1500	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)	2.5	kJ/m ²	ISO 179-1/1eA
Ball indentation hardness - HB	75	N/mm ²	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/cm ³	ISO 1183-1