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Sasol Polymers
Polypropylene Business

MFR 12 g/10min

Sasol Polymers PP HNR100

is a high flow polypropylene homopolymer.

Sasol Polymers PP HNQ100

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

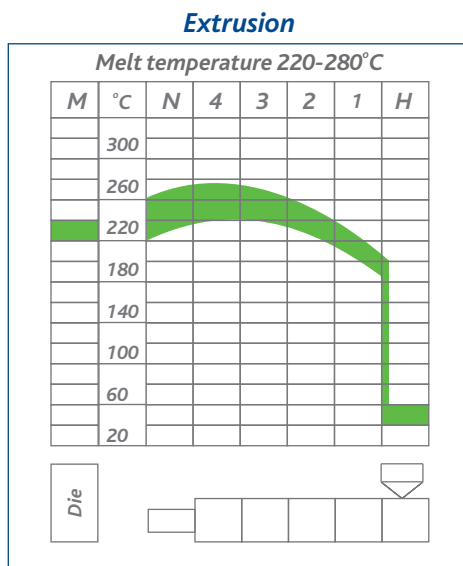
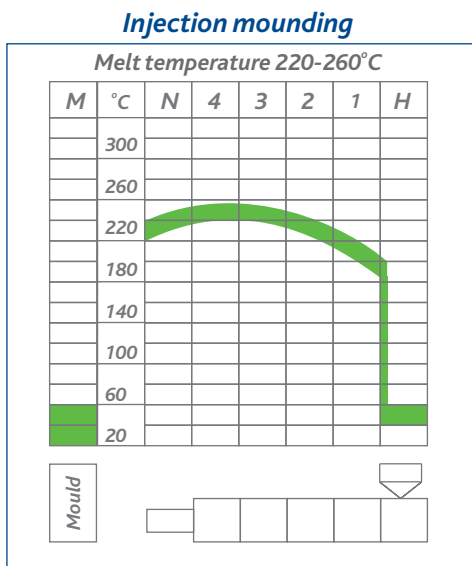
This product offers easy processability when used for producing:

- 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_{Mp} / S_{Mn} | 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 |