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Sasol Polymers
Polyolefins Business

MFR 50 g/10min

Sasol Polymers PP HTV145

is a very high flow, narrow molecular weight distribution polypropylene homopolymer.

Injection moulding

Sasol Polymers HTV145 is particularly suitable for the injection moulding of thin walled articles with high flow path/wall thickness ratios.

Typical applications are

- Atchar cups
- Food containers
- Caps/Dust covers
- Pharmaceutical containers
- Thinwalled packaging

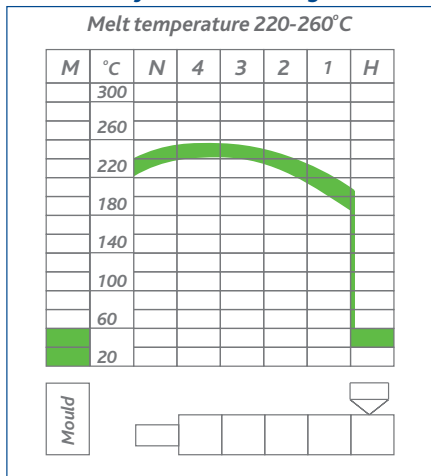
Extrusion

Sasol Polymers HTV145 is suitable for extrusion coating of woven PP cloth.

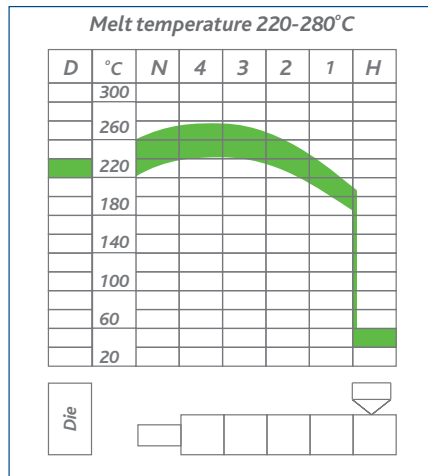
Sasol Polymers HTV145 contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times. In the extrusion coating process melt curtain stability is improved and less necking occurs.

Typical processing temperatures

Injection moulding



Extrusion





Sasol Polymers PP HTV145

Typical values, not to be construed as specifications.

| | Value | Unit | Test method |
|--|---------|-------------------|-----------------|
| Rheological properties | | | |
| Melt mass-flow rate - MFR (230/2.16) | 50 | g/10min | ISO 1133 |
| Moulding shrinkage - S_{MP} / S_{MO} | 1.2/1.2 | % | 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 | 8.5 | % | ISO 527-2/1A/50 |
| Tensile strain at break | >50 | % | ISO 527-2/1A/50 |
| Charpy notched impact strength (23°C) | 2.0 | kJ/m ² | ISO 179-1/1eA |
| Ball indentation hardness - HB | 78 | N/mm ² | ISO 2039-1 |
| Thermal properties | | | |
| Melting temperature - DSC | 163 | °C | ISO 11357-3 |
| Heat deflection temperature - HDT/A (1.8 MPa) | 55 | °C | ISO 75-2 |
| Heat deflection temperature - HDT/B (0.45 MPa) | 90 | °C | ISO 75-2 |
| Vicat softening temperature - VST/A 120 (10N) | 155 | °C | ISO 306 |
| Vicat softening temperature - VST/B 120 (50N) | 92 | °C | ISO 306 |
| Other properties | | | |
| Density | 0.906 | g/cm ³ | ISO 1183-1 |

This information is based on our current knowledge and experience. In view of many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.