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**Sasol Polymers
Polypropylene Business**

MFR 45g/10 min

Sasol Polymers PP HTV145

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

Injection moulding:

Sasol Polymers PP HTV145 is a 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

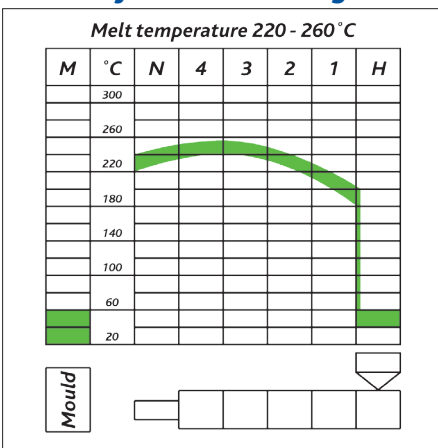
Extrusion:

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

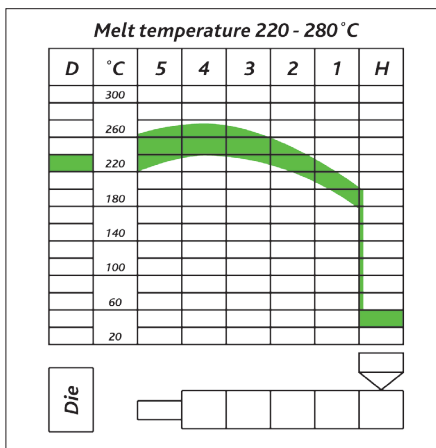
Sasol Polymers PP HTV145 contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times. In the extrusion coating process melt curtain stability is improved and less necking occurs.

Typical processing temperatures

Injection moulding



Extrusion



Cooling water (Chill roll) 15-30°C



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)	45	g/10 min	ISO 1133
Moulding Shrinkage - S_{Mp} / S_{Mn}	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