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**Sasol Polymers  
Polypropylene Business**

**MFR 2.0g/10 min**

**Sasol Polymers PP HHR102**

is a low flow polypropylene homopolymer, suitable for applications where good mechanical strength is required. It is formulated with a high processing stabilisation package and displays low water carry over during the extrusion process.

**Injection moulding:**

Suitable for use in moulding of thick walled domestic, automotive and general purpose articles where excellent mechanical properties are needed.

**Blow moulding:**

Produces excellent mouldings up to 1 litre capacity with good gloss.

**Extrusion:**

Sasol Polymers PP HHR102 is suitable for a wide range of extrusion applications.

*Thermoforming* - Suitable for the production of flat sheet as used in the manufacture of thermoformed articles.

*Monofilaments* - For ropes, twines, nets and bristles.

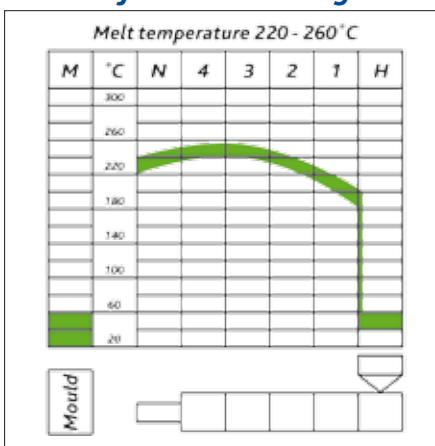
*Film tape* - Sasol Polymers PP HHR102 is suitable for:

- Coarse slit film tape for ropes and twines
- Fine slit film tapes for woven and packaging fabric eg. heavy duty bags or flexible intermediate bulk containers (FIBC's).

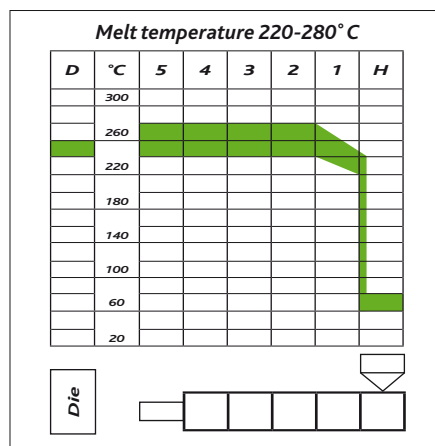
*Package strapping* - Automatic and hand strapping applications.

**Typical processing temperatures**

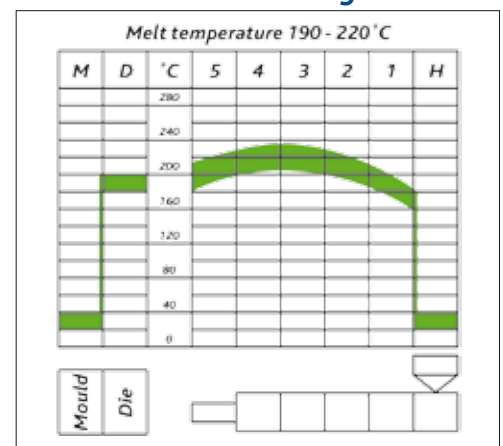
**Injection moulding**



**Extrusion**



**Blow moulding**



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

**Sasol Polymers PP HHR102**

Typical values, not to be construed as specifications.

	VALUE	UNIT	TEST METHOD
<b>Rheological properties</b>			
Melt mass-flow rate - MFR (230/2.16)	2.0	g/10 min	ISO 1133
Moulding Shrinkage - $S_{Mp}$ / $S_{Mn}$	1.5 / 1.4	%	ISO 294-4
<b>Mechanical properties</b>			
Tensile Modulus of Elasticity	1400	MPa	ISO 527-2/1A/1
Tensile Stress at Yield	34	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)	3.5	kJ/m <sup>2</sup>	ISO 179-1/1eA
Ball Indentation Hardness - HB	70	N/mm <sup>2</sup>	ISO 2039-1
<b>Thermal properties</b>			
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
<b>Other properties</b>			
Density	0.905	g/cm <sup>3</sup>	ISO 1183-1