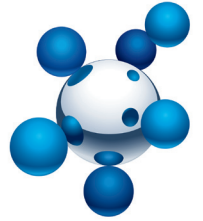


HMR040



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Information

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Sasol Polymers Polypropylene Business

MFR 8.5g/10 min

Sasol Polymers PP HMR040

is a medium flow high modulus polypropylene homopolymer.

Injection moulding:

Sasol Polymers PP HMR040 is particularly suitable as replacement for mineral filled PP grades in injection moulding, or otherwise in applications where high stiffness is a specific requirement.

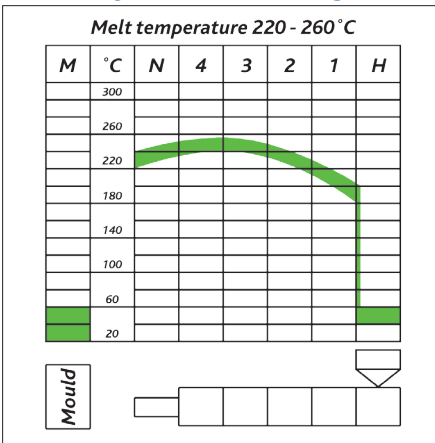
Typical applications are :

- Garden furniture
- Microwaveable trays
- Caps and closures
- Domestic food containers
- Cosmetic and toiletry components

Sasol Polymers PP HMR040 contains a nucleating agent which ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times.

Typical processing temperatures

Injection moulding





Sasol Polymers PP HMR040

Typical values, not to be construed as specifications.

	VALUE	UNIT	TEST METHOD
Rheological properties			
Melt mass-flow rate - MFR (230/2.16)	8.5	g/10 min	ISO 1133
Moulding Shrinkage - S_{Mp} / S_{Mn}	1.4 / 1.4	%	ISO 294-4
Mechanical properties			
Tensile Modulus of Elasticity	1900	MPa	ISO 527-2/1A/1
Tensile Stress at Yield	38	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	7.0	%	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	90	N/mm ²	ISO 2039-1
Thermal properties			
Melting Temperature - DSC	165	°C	ISO 11357-3
Heat Deflection Temperature - HDT/A (1.8 MPa)	60	°C	ISO 75-2
Heat Deflection Temperature - HDT/B (0.45 MPa)	105	°C	ISO 75-2
Vicat Softening Temperature - VST/A 120 (10N)	158	°C	ISO 306
Vicat Softening Temperature - VST/ B 120 (50N)	100	°C	ISO 306
Other properties			
Density	0.907	g/cm ³	ISO 1183-1