

Product Data Sheet

CMR648

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Information

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Sasol Polymers
Polypropylene Business

MFR 8.5a/10 min

Sasol Polymers PP CMR648

is a medium flow high impact polypropylene copolymer. The grade is formulated with antistatic additives.

Injection moulding:

Sasol Polymers PP CMR648 is recommended for use in applications where superior impact properties and toughness are required. The grade exhibits a very good balance between impact and stiffness properties, still maintaining a good toughness at temperatures as low as -30°C .

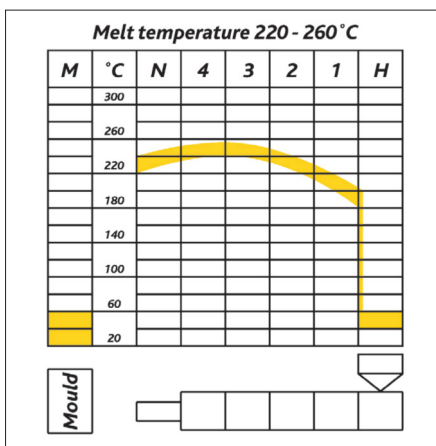
Typical applications are:

- Bottle crates
- Dairy and Industrial crates
- Transport and Storage containers
- Buckets
- Folding boxes
- Tool cases
- Garden tools

Sasol Polymers PP CMR648 contains a nucleating agent that 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 CMR648

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_{M0} / S_{Mn}	1.4 / 1.3	%	ISO 294-4
Mechanical properties			
Tensile Modulus of Elasticity	1050	MPa	ISO 527-2/1A/1
Tensile Stress at Yield	21	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	6.0	%	ISO 527-2/1A/50
Tensile Strain at Break	>50	%	ISO 527-2/1A/50
Charpy Notched Impact Strength (23°C)	50	kJ/m ²	ISO 179-1/1eA
Charpy Notched Impact Strength (0°C)	10	kJ/m ²	ISO 179-1/1eA
Charpy Notched Impact Strength (-20°C)	6.0	kJ/m ²	ISO 179-1/1eA
Ball Indentation Hardness - HB	45	N/mm ²	ISO 2039-1
Thermal properties			
Melting Temperature - DSC	163	°C	ISO 11357-3
Heat Deflection Temperature - HDT/A (1.8 MPa)	48	°C	ISO 75-2
Heat Deflection Temperature - HDT/B (0.45 MPa)	80	°C	ISO 75-2
Vicat Softening Temperature - VST/A 120 (10N)	144	°C	ISO 306
Vicat Softening Temperature - VST/B 120 (50N)	58	°C	ISO 306
Other properties			
Density	0.904	g/cm ³	ISO 1183-1