



CRV646

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Sasol Polymers Polypropylene Business

MFR 24 g/10min

Sasol Polymers PP CRV646

is a high flow narrow molecular weight distribution polypropylene impact copolymer. The grade is formulated with antistatic additives.

Injection moulding

Sasol Polymers PP CRV646 is particularly suitable for injection moulding of thin walled articles, requiring very good low temperature impact resistance with good stiffness.

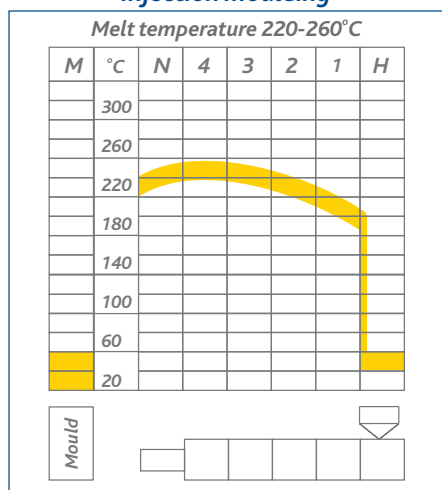
Typical applications are:

- Ice cream tubs
- Paint containers
- Shopping baskets
- Buckets
- Storage boxes

Sasol Polymers PP CRV646 contains a nucleating agent which ensures rapid crystallisation, resulting in improved impact to stiffness balance as well as shorter cooling times.

Typical processing temperatures

Injection moulding





Sasol Polymers PP CRV646

Typical values, not to be construed as specifications.

	Value	Unit	Test method
Rheological properties			
Melt mass-flow rate - MFR (230/2.16)	24	g/10min	ISO 1133
Moulding shrinkage - S_{Mp} / S_{Mn}	1.3/1.3	%	ISO 294-4
Mechanical properties			
Tensile modulus of elasticity	1050	MPa	ISO 527-2/1A/1
Tensile stress at yield	22	MPa	ISO 527-2/1A/50
Tensile strain at yield	5.5	%	ISO 527-2/1A/50
Tensile strain at break	>50	%	ISO 527-2/1A/50
Charpy notched impact strength (23°C)	10	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength (0°C)	6.5	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength (-20°C)	4.5	kJ/m ²	ISO 179-1/1eA
Ball indentation hardness - HB	44	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)	76	°C	ISO 75-2
Vicat softening temperature - VST/A 120 (10N)	146	°C	ISO 306
Vicat softening temperature - VST/B 120 (50N)	56	°C	ISO 306
Other properties			
Density	0.904	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.