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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.

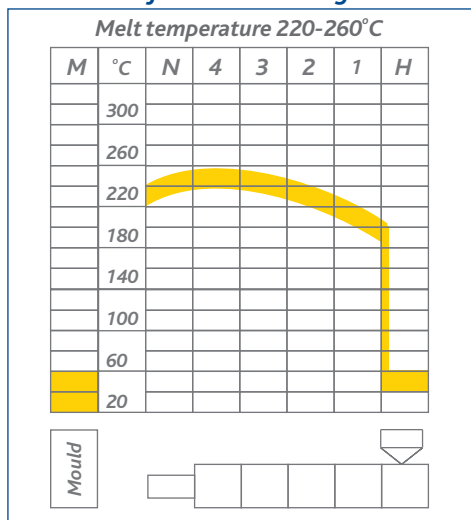
Typical applications are:

- 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
<b>Rheological properties</b>			
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
<b>Mechanical properties</b>			
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 <sup>2</sup>	ISO 179-1/1eA
Charpy notched impact strength (0°C)	6.5	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy notched impact strength (-20°C)	4.5	kJ/m <sup>2</sup>	ISO 179-1/1eA
Ball indentation hardness - HB	44	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)	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
<b>Other properties</b>			
Density	0.904	g/cm <sup>3</sup>	ISO 1183-1