



Date of Issue: April 2009

Information:

Polymer Technology Centre
PO Box 72
Modderfontein 1645
South Africa

Tel: +27 (0)11 458 0700
Fax: +27 (0)11 458 0710

Polypropylene sales

Polypropylene Business
PO Box 2525
Randburg 2125
South Africa

Tel: +27 (0)11 790 1432
Fax: +27 (0)11 790 1079

www.sasol.com/polymers

Sasol Polymers
Polypropylene Business

MFR 50 g/10min

Sasol Polymers PP CTV446

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

Injection moulding

Sasol Polymers PP CTV446 is particularly suitable for injection moulding of thin walled articles with long flow paths. This grade offers good impact properties in low temperature applications.

Typical thin walled applications are:

- Yoghurt cups
- Margarine tubs
- Dust covers for aerosol cans
- Domestic household articles

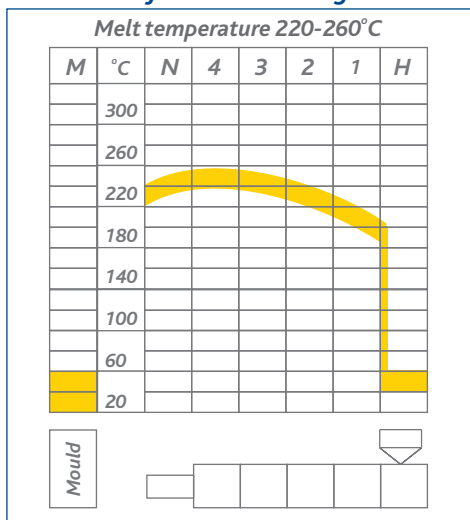
Typical high flow path/wall thickness applications are:

- Thin walled containers
- Basins
- Laundry baskets
- Silicone/Filler tubes

Sasol Polymers PP CTV446 contains a nucleating agent that ensures rapid crystallisation, resulting in improved impact to stiffness balance as well as shorter cooling times.

Typical processing temperatures

Injection moulding





Sasol Polymers PP CTV446

Typical values, not to be construed as specifications.

	Value	Unit	Test method
Rheological properties			
Melt mass-flow rate - MFR (230/2.16)	50	g/10min	ISO 1133
Moulding shrinkage - S_{Mp} / S_{Mn}	1.2/1.2	%	ISO 294-4
Mechanical properties			
Tensile modulus of elasticity	1200	MPa	ISO 527-2/1A/1
Tensile stress at yield	24	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)	6.5	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength (0°C)	4.0	kJ/m ²	ISO 179-1/1eA
Charpy notched impact strength (-20°C)	3.0	kJ/m ²	ISO 179-1/1eA
Ball indentation hardness - HB	50	N/mm ²	ISO 2039-1
Thermal properties			
Melting temperature - DSC	163	°C	ISO 11357-3
Heat deflection temperature - HDT/A (1.8 MPa)	52	°C	ISO 75-2
Heat deflection temperature - HDT/B (0.45 MPa)	87	°C	ISO 75-2
Vicat softening temperature - VST/A 120 (10N)	152	°C	ISO 306
Vicat softening temperature - VST/B 120 (50N)	70	°C	ISO 306
Other properties			
Density	0.905	g/cm ³	ISO 1183-1