

# CTV448

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**Information**

Polymer Technology Centre  
P O Box 72  
Modderfontein 1645  
South Africa

**Polypropylene sales**

Polypropylene Business  
P O Box 2525  
Randburg 2125  
South Africa

Tel: +27 (0) 11 458 0702  
Fax: +27 (0) 11 458 0710

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

[www.sasol.com/polymers](http://www.sasol.com/polymers)

## Sasol Polymers Polypropylene Business

# MFR 50g/10 min

### Sasol Polymers PP CTV448

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

#### Injection moulding:

Sasol Polymers PP CTV448 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

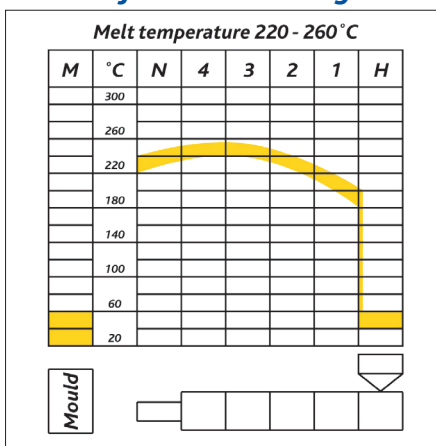
Typical high flow path/wall thickness applications are:

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

Sasol Polymers PP CTV448 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 CTV448**

Typical values, not to be construed as specifications.

	VALUE	UNIT	TEST METHOD
<b>Rheological properties</b>			
Melt mass-flow rate - MFR (230/2.16)	50	g/10 min	ISO 1133
Moulding Shrinkage - $S_{Mp}$ / $S_{Mn}$	1.2 / 1.2	%	ISO 294-4
<b>Mechanical properties</b>			
Tensile Modulus of Elasticity	1100	MPa	ISO 527-2/1A/1
Tensile Stress at Yield	22	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)	7.0	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Notched Impact Strength (0°C)	3.5	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy Notched Impact Strength (-20°C)	3.0	kJ/m <sup>2</sup>	ISO 179-1/1eA
Ball Indentation Hardness - HB	48	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)	50	°C	ISO 75-2
Heat Deflection Temperature - HDT/B (0.45 MPa)	82	°C	ISO 75-2
Vicat Softening Temperature - VST/A 120 (10N)	148	°C	ISO 306
Vicat Softening Temperature - VST/ B 120 (50N)	65	°C	ISO 306
<b>Other properties</b>			
Density	0.905	g/cm <sup>3</sup>	ISO 1183-1