



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 35 g/10min

Sasol Polymers PP ESV255

is a high flow narrow molecular weight distribution clarified polypropylene random copolymer. The grade is formulated with a mould release additive package.

Injection moulding

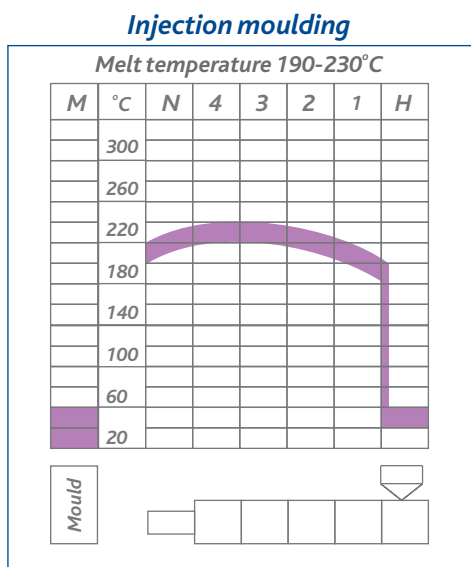
Sasol Polymers PP ESV255 is particularly suitable for injection moulding of articles where good transparency (high clarity) and excellent surface gloss is required.

Typical applications are:

- Food containers
- Cosmetic containers
- General housewares
- Caps and closures
- Aerosol dust cover
- Stationery items

Sasol Polymers PP ESV255 contains a nucleating agent that ensures rapid crystallisation, resulting in improved cycle times due to shorter cooling times.

Typical processing temperatures





Sasol Polymers PP ESV255

Typical values, not to be construed as specifications.

	Value	Unit	Test method
Rheological properties			
Melt mass-flow rate - MFR (230/2.16)	35	g/10min	ISO 1133
Moulding shrinkage - S_{Mp}/S_{Mn}	1.2/1.2	%	ISO 294-4
Mechanical properties			
Tensile modulus of elasticity	1100	MPa	ISO 527-2/1A/1
Tensile stress at yield	28	MPa	ISO 527-2/1A/50
Tensile strain at yield	11	%	ISO 527-2/1A/50
Tensile strain at break	>50	%	ISO 527-2/1A/50
Charpy notched impact strength (23°C)	5.0	kJ/m^2	ISO 179-1/1eA
Charpy notched impact strength (0°C)	2.0	kJ/m^2	ISO 179-1/1eA
Ball indentation hardness - HB	50	N/mm^2	ISO 2039-1
Thermal properties			
Melting temperature - DSC	148	°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)	76	°C	ISO 75-2
Vicat softening temperature - VST/A 120 (10N)	132	°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
Haze (1.0/2.0mm injection moulded plaques)	7.5/20	%	ISO 14782