#### **Product Data Sheet**



Previous grade number 1140RC

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## MFI 21g/10 min

#### Sasol Polymers PP HRV140

is a high flow narrow molecular mass distribution polypropylene homopolymer (commonly termed a Controlled Rheology grade).

### Injection moulding:

Sasol Polymers PP HRV140 is a general purpose injection moulding grade suitable for use in products where rigidity and short cycle times are required.

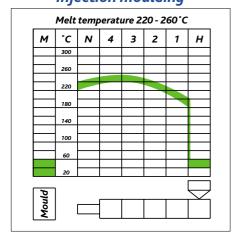
Typical applications are:

- · Domestic containers and closures
- · Bottle closures and caps
- Cosmetic and toiletry components
- Multi-cavity mouldings
- General household articles

Sasol Polymers PP HRV140 contains a nucleating agent that ensures rapid crystallisation, resulting in an improved impact to stiffness balance as well as shorter cooling times.

# Typical processing temperatures

### Injection moulding



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# Sasol Polymers PP HRV140 (previously 1140RC)

Typical values at 23°C for uncoloured products

			Test method	
	Value	Unit	ISO	DIN
Physical properties				
Mass density	0.91	g/cm <sup>3</sup>	1183	53479A
Melting point DSC	163	°C	3146	_
Melt flow index MFI 230/2.16	21	g/10 min	1133	53735
Mechanical properties				
Tensile strength at yield (50mm/min)	35	MPa	527	53455
Elongation at yield (50mm/min)	8.0	%	527	53455
Ultimate elongation (50mm/min)	>50	%	527	53455
Modulus of elasticity in tension (1mm/min)	1550	MPa	527	53457
Izod notched impact resistance 23°C	2.5	kJ/m <sup>2</sup>	180/1A	_
Charpy impact resistance 23°C	110	kJ/m <sup>2</sup>	180/1A	53453
Charpy impact resistance 0°C	23	kJ/m <sup>2</sup>	180/1A	53453
Charpy impact resistance -20°C	13	kJ/m <sup>2</sup>	179/1eU	53453
Ball indentation Hardness H 358/30	75	MPa	2039-1	_
Shrinkage	1.4	%	*	*
Thermal properties				
Heat distortion temp HDT/A (1.8 MPa)	50	°C	75	53461
Heat distortion temp HDT/B (0.45 MPa)	90	°C	75	53461
Vicat softening point A/120 10N	153	°C	306	_

<sup>\*</sup> Sasol Polymers method