

## Technical Data Sheet

### Moplen HP552R



Polypropylene, Homopolymer

#### Product Description

*Moplen* HP552R is a polypropylene homopolymer suitable for extrusion applications. *Moplen* HP552R is formulated with an anti-gasfading stabilisation package. *Moplen* HP552R is used for the production of (bulk) continuous filaments and fine denier staple fibres. Typical applications are carpets and nonwovens.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Absorption & Filtration; Bulk Continuous Filament & Continuous Filament; Filament Yarn; Hygiene Nonwoven; Nonwovens; Wipes/Tissues
<b>Market</b>	Textile
<b>Processing Method</b>	Continuous Filament/Spinning; Fibers; Spunbond; Staple Fiber
<b>Attribute</b>	Gas-fading Resistant; High Flow; Homopolymer

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	25	g/10 min	ISO 1133-1
Density	0.900	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Flexural Modulus	1400	N/mm <sup>2</sup>	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	23	N/mm <sup>2</sup>	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	34	N/mm <sup>2</sup>	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	700	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	11	%	ISO 527-1, -2
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	85	°C	ISO 75B-1, -2