

## Technical Data Sheet

### *Moplen* HP561R



Polypropylene, Homopolymer

#### Product Description

*Moplen* HP561R is a polypropylene homopolymer used for extrusion applications. *Moplen* HP561R has a very narrow molecular weight distribution and is formulated with an anti-gasfading stabilisation package. *Moplen* HP561R is used for the production of continuous filaments. Typical applications are high-tenacity yarns (HTY) and spunbond nonwovens.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Absorption & Filtration; Filament Yarn; Furniture & Buildings; Geotextile & Agriculture; Hygiene Nonwoven; Nonwovens; Wipes/Tissues
<b>Market</b>	Textile
<b>Processing Method</b>	Continuous Filament/Spinning; Extrusion Coating; Fibers; Spunbond
<b>Attribute</b>	Controlled Rheology; Gas-fading Resistant; High Flow; Homopolymer; Narrow Molecular Weight Distribution

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	1300	N/mm <sup>2</sup>	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	20	N/mm <sup>2</sup>	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	33	N/mm <sup>2</sup>	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	650	%	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)	153	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	83	°C	ISO 75B-1, -2