

## Technical Data Sheet

### *Moplen* HP3841



Polypropylene, Homopolymer

#### Product Description

*Moplen* HP3841 is a polypropylene homopolymer used for extrusion applications. *Moplen* HP3841 has a very narrow molecular weight distribution and is formulated with an anti-gasfading stabilisation package. *Moplen* HP3841 is used for the production of continuous filaments. Typical applications are high-tenacity yarns (HTY) and spunbond nonwovens.

The grade being in development, this is a preliminary datasheet subjected to changes after product industrialization.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Filament Yarn; Geotextile & Agriculture; Hygiene Nonwoven
<b>Market</b>	Textile
<b>Processing Method</b>	Continuous Filament/Spinning; Injection Molding; Spunbond
<b>Attribute</b>	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	1250	MPa	ISO 178
Tensile Stress at Break	20	MPa	ISO 527-1, -2
Tensile Stress at Yield	33	MPa	ISO 527-1, -2
Tensile Strain at Break	>50%	%	ISO 527-1, -2
Tensile Strain at Yield	11	%	ISO 527-1, -2
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2