



## Moplen HP552N

### Polypropylene, Homopolymer

#### Product Description

Moplen HP552N is used in extrusion applications. It is formulated with an anti-gasfading stabilisation package. Moplen HP552N is used in the production of continuous filaments and fine denier staple fibres. Typical applications are carpets and nonwovens. For regulatory information please refer to Moplen HP552N Product Stewardship Bulletin (PSB).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Asia-Pacific, Africa-Middle East
<b>Processing Methods</b>	Continuous Filament/Spinning, Staple Fibre
<b>Features</b>	Homopolymer
<b>Typical Customer Applications</b>	Filament Yarn, Nonwoven Staple Fibres, Staple Fiber

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	13	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break	ISO 527-1, -2	23	N/mm <sup>2</sup>
Tensile Stress at Yield	ISO 527-1, -2	34	N/mm <sup>2</sup>
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Flexural modulus	ISO 178	1400	N/mm <sup>2</sup>
<b>Impact</b>			
Charpy unnotched impact strength	ISO 179	210	kJ/m <sup>2</sup>
Charpy notched impact strength	ISO 179	8	kJ/m <sup>2</sup>
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		153	°C
(B50 (50°C/h 50N))		93	°C

#### Notes

Typical properties; not to be construed as specifications.