



# Moplen HP500N

Polypropylene, Homopolymer

## Product Description

Moplen HP500N is a homopolymer used for general purpose injection moulding applications. It exhibits good flow and stiffness.

Moplen HP500N is suitable for food contact.

## Product Characteristics

Status Commercial: Active

Test Method used ISO

Availability Europe, Africa-Middle East

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.9	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	12	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	16	cm <sup>3</sup> /10min

## Mechanical

Tensile Modulus	ISO 527-1, -2	1550	MPa
Tensile Stress at Yield	ISO 527-1, -2	35	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	10	%

## Impact

Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		110	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise)		30	kJ/m <sup>2</sup>
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	3	kJ/m <sup>2</sup>

## Thermal

Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	95	°C
Vicat softening temperature A/50	ISO 306	153	°C
Vicat softening temperature B/50	ISO 306	85	°C

## Notes

Typical properties; not to be construed as specifications.

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