



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
Physical		
Density	ISO 1183	0.9 g/cm ³
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 ³ /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 (23 °C, Type 1, Edgewise)	ISO 179	110 kJ/m ²
(0 °C, Type 1, Edgewise)		30 kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	3 kJ/m ²
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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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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