



Moplen HP501M

Polypropylene, Homopolymer

Product Description

Moplen HP501M is a homopolymer used for injection moulding applications.

Moplen HP501M exhibits a good stiffness/impact balance at ambient temperature.

The main applications of Moplen HP501M are caps, closures, housewares and furniture.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Typical Customer Applications	Caps & Closures, Furniture, Housewares

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	7.5	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	10	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1500	MPa
Tensile Stress at Yield	ISO 527-1, -2	34	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	9	%
Impact			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	140	kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	3.50	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	74	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	85	°C
Vicat softening temperature A/50	ISO 306	154	°C
Vicat softening temperature B/50	ISO 306	90	°C

Notes

Typical properties; not to be construed as specifications.