



Moplen HP509N

Polypropylene, Homopolymer

Product Description

Moplen HP509N is a homopolymer used for general purpose injection moulding applications. It exhibits good flow and stiffness.

Moplen HP509N is suitable for food contact.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, 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
		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.