Moplen HP500V

Polypropylene, Homopolymer

Product Description

Moplen HP500V is an ultra high fluidity homopolymer polypropylene suitable for thin walled injection moulding applications and as base resin for compounding applications.
The product combines a high stiffness with good impact resistance. In addition a good dimensional stability is given.
Moplen HP500V is used for items with long flow paths as well as for long glass fibre reinforced recipes (GMT/LFT). *Moplen* HP500V contains neither nucleation agents nor antistaticums or slip/antiblock agents.
For regulatory information please refer to *Moplen* HP500V Product Stewardship Bulletin (PSB).
It is not intended for medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe
Processing Methods	Injection Molding
Features	High Flow , High Stiffness

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.91	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	120	g/10 min
Mechanical			
Tensile Modulus (1 mm/min in/min)	ISO 527-1, -2	1450	MPa
Tensile Stress at Yield (v = 50 mm/min in/min)	ISO 527-1, -2	35	MPa
Tensile Strain at Break (50 in/min)	ISO 527-1, -2	20	%
Tensile Strain at Yield (v = 50 mm/min in/min)	ISO 527-1, -2	7	%
Impact			
Charpy unnotched impact strength (23 °C)	ISO 179	75	kJ/m²
Notched izod impact strength (23 °C)	ISO 180	3.0	kJ/m²
Thermal			
Melting temperature		163	°C
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature (A50 (50°C/h 10N) °C)	ISO 306	154	°C

Notes

Typical properties; not to be construed as specifications.