

Moplen HP500V

Polypropylene Homopolymer

LyondellBasell Industries

Message:

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.

General Information			
Features	Good Dimensional Stability		
	Good Impact Resistance		
	High Flow		
	High Stiffness		
	Homopolymer		
Uses	Thin-walled Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	120	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	
Break	20	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	75	kJ/m²	ISO 179
Notched Izod Impact Strength (23°C)	3.0	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B
Vicat Softening Temperature	154	°C	ISO 306/A50
Melting Temperature (DSC)	163	°C	ISO 3146

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