

Moplen HP500N

Polypropylene Homopolymer

LyondellBasell Industries



Prospector

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.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	
Features	• Food Contact Acceptable	• Good Flow	• Homopolymer
	• General Purpose	• Good Stiffness	
Uses	• General Purpose		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	16.0 cm ³ /10min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1550 MPa	ISO 527-2
Tensile Stress (Yield)	35.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	10 %	
Break	> 50 %	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength		ISO 179
0°C	30 kJ/m ²	
23°C	110 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/B
0.45 MPa, Unannealed	95.0 °C	
Vicat Softening Temperature		
--	153 °C	ISO 306/A50
--	85.0 °C	ISO 306/B50

Notes

¹ Typical properties: these are not to be construed as specifications.