Technical Data Sheet

Moplen HP500N

Polypropylene, Homopolymer

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.

Regulatory Status

For regulatory compliance information, see Moplen HP500N Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe
Application	Furniture; Housewares
Market	Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Blow Molding
Attribute	Medium Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ISO1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1400	MPa	ISO 527-1, -2
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
Tensile Strain at Break	> 50	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	4	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature			
(A/50 N)	153	°C	ISO 306
(B50)	85	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	95	°C	ISO 75B-1, -2

Notes

ISO properties above are typical values of LYB products from Europe.

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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(ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
(iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
(iv) tobacco related products and applications, electronic cigarettes and similar devices.
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