

Technical Data Sheet

Moplen EP500V

Polypropylene, Impact Copolymer



Product Description

Moplen EP500V is an ultra high fluidity polypropylene copolymer used for injection moulding applications. The product combines high stiffness with good impact resistance, even at sub-zero temperatures. Moplen EP500V is extensively used for items with long flow paths. It is not intended for medical and pharmaceutical applications.

Regulatory Status

For regulatory compliance information, see Moplen EP500V [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers
Market	Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Molding
Attribute	Good Impact Resistance; Good Stiffness; High Flow; Impact Copolymer; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	100	g/10 min	ISO 1133-1
Melt Volume Flow Rate, (230 °C/2.16 kg)	135	cm ³ /10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	26	MPa	ISO 527-1, -2
Tensile Strain at Break	20	%	ISO 527-1, -2
Tensile Strain at Yield	6	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	5.0	kJ/m ²	ISO 179
(0 °C)	3.2	kJ/m ²	ISO 179
(-20 °C)	2.3	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-4.3	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness	81	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A/50 N)	149	°C	ISO 306
(B50)	74	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	93	°C	ISO 75B-1, -2

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Recipient Tracking #:
Request #: 907926

Notes

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.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (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.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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