

Technical Data Sheet

Moplen EP310D

Polypropylene, Impact Copolymer



Product Description

Moplen EP310D is a low fluidity polypropylene heterophasic copolymer. It does not contain anti-blocking and slip additives.

Moplen EP310D is typically used by customers for extrusion applications when high mechanical properties are of the utmost importance. It is normally extruded by customers in single layer film for lamination on other substrates, obtaining structures that can be processed under high retorting conditions. This grade has been reported to be used in some other typical applications, such as extruded film for adhesive tapes, lamination film, freezer film, pipes, fittings and containers produced by extrusion blow molding. Customers also reported that can be used as a building block for heavy duty bags, delivering high impact and thermal resistance over a broad range of temperatures.

Moplen EP310D has been reported by customers to exhibit high impact, good puncture, good tear resistance, high seal strength and seal integrity.

Regulatory Status

For regulatory compliance information, see *Moplen EP310D* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Containers; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Extrusion Blow Molding; Pipe
Attribute	Good Processability; Impact Copolymer; Low Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.95	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1080	MPa	ISO 178
Tensile Stress at Break	30	MPa	ISO 527-1, -2
Tensile Stress at Yield	26	MPa	ISO 527-1, -2
Tensile Strain at Break	600	%	ISO 527-1, -2
Tensile Strain at Yield	13	%	ISO 527-1, -2
Impact			

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Charpy Impact Strength - Notched		
(23 °C)	60 kJ/m ²	ISO 179-1/1eA
(0 °C)	10 kJ/m ²	ISO 179-1/1eA
(-20 °C)	6 kJ/m ²	ISO 179-1/1eA
Thermal		
Vicat Softening Temperature, (A/50 N)	150 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80 °C	ISO 75B-1, -2

Notes

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

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

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.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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