

Technical Data Sheet

Moplen EP310J HP

Polypropylene, Impact Copolymer



Product Description

LyondellBasell has developed the new *Moplen* grade EP310J HP for the extrusion of films used for lamination on other substrates, which is highly appreciated by customers in the production of applications that can be processed under high retorting conditions. This new grade is produced using a non-phthalate catalyst system favored by customers in applications intended for food contact. The film viscosity achieved with *Moplen* EP310J HP offers good processability on cast, blown and BOPP lines. This polypropylene heterophasic copolymer exhibits high impact, good puncture, good tear resistance, high seal strength and seal integrity.

Regulatory Status

For regulatory compliance information, see *Moplen* EP310J HP [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Food Packaging Film; Lamination Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film
Attribute	Good Processability; Impact Copolymer; Medium Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	3.0	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Break	54	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Film			
Tensile Elongation at Break, MD	1175	%	ISO 527-1, -3
Tensile Elongation at Yield, MD	13	%	ISO 527-1, -3
Thermal			
Melting Temperature	166	°C	LYB Method
Crystallization Temperature	122	°C	LYB Method
Optical			
Haze, (70 µm)	6	%	ASTM D1003
Gloss	72	%	ASTM D2457

Notes

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Recipient Tracking #:
Request #: 909230

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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- (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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