Technical Data Sheet

Moplen EP310D HP

Polypropylene, Impact Copolymer

Product Description

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

Moplen EP310D HP 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 HP 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 HP 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/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1080	MPa	ISO 178
Tensile Stress at Break	31	MPa	ISO 527-1, -2
Tensile Stress at Yield	26	MPa	ISO 527-1, -2
Tensile Strain at Break	>500	%	ISO 527-1, -2
Tensile Strain at Yield	14	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	50	kJ/m²	ISO 179-1/1eA
(-20 °C)	5	kJ/m²	ISO 179-1/1eA

Thermal			
Vicat Softening Temperature, (A/50)	152	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	83	°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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