Luban EP2340L
Polypropylene Impact Copolymer

Description

Luban EP2340L is manufactured using the Spheripol Technology. Luban EP2340L is a medium flow impact copolymer polypropylene with improved mechanical properties balance. The product features high stiffness and outstanding impact strength at low temperatures and is specifically designed for injection molding applications. The grade exhibits high stiffness and outstanding impact strength, 35% higher than conventional grades. Luban EP2340L is suitable for a wide range of applications in the packaging, automotive and consumer goods industries.

Application

Packaging, automotive and consumer goods industries, luggage, furniture, paint pails, buckets, containers, crates, batteries and large toys.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	7.0
Density	g /cm³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1150
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	22
Elongation at Yield	%	ISO 527-2	4.4
Tensile Stress at Break (50 mm/min)	MPa	ISO 527-2	19
Elongation at Break	%	ISO 527-2	>400
Notched Charpy Impact (+ 23°C)	kJ/m²	ISO 179/1eA	47
Notched Charpy Impact (-20°C)	kJ/m²	ISO 179/1eA	7.5
Notched Izod Impact Strength @(23°C)	J/m	ASTM D256	No Break
Notched Izod Impact Strength @ (-20°C)	J/m	ASTM D256	85
Vicat Softening Point (10N, 50 °C /min)	°C	ISO 306-A50	145
Heat Deflection Temperature(0.45MPa, 120°C/min)	°C	ISO 75B	83

Note: These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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Prcessing Guidlines

The Typical Processing Conditions for Luban EP2340L are:

Melt temperature	220 – 260 °C
Holding pressure	200 – 500 bar Maximum to avoid sink marks
Mold temperature	20 – 40 °C
Injection speed	High
Shrinkage	1 – 2 % depending on wall thickness and molding parameters

Note: Processing parameters should only be used as guidelines. The above properties values are not to be construed as specifications.

Storage and Handling

Luban EP2340L must be protected from direct sunlight and should be stored in a shaded and completely dry area. During handling and processing, the material should be kept in a well-ventilated area to prevent the accumulation of dust and fumes. Contact with strong oxidizers, excessive heat, sparks or open flame should be avoided as this could initiate the degradation process and consequently impact the quality of the material.

Safety

Luban EP2340L is not classified as dangerous preparation. For further information about safety in handling and processing please refer to the Safety Data Sheet.

Food Contact

Luban EP2340L meets the requirements of the U.S. Food and Drug Administration (FDA) as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact. For additional information on approved conditions of use for food contact applications, please refer to the "Product Stewardship Declaration".

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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Disclaimer:
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