Luban EP2300V
Polypropylene Impact Copolymer

Description

Luban EP2300V is manufactured using the Spheripol Technology. Luban EP2300V is an impact copolymer polypropylene without nucleation and antistatic additivation, suitable for thin wall injection molding (TWIM) applications. The grade exhibits a good impact/stiffness balance even at sub-zero temperatures. The grade can be used for items with long flow paths as well as for long glass fiber reinforced recipes (GMT/LFT).

Application

TWIM food containers for deep freeze applications, housewares, sports, leisure & toys, compounding.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	100
Density	g /cm³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1300
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	30
Tensile strain at yield (50 mm/min)	%	ISO 527-2	7
Tensile strain at break (50 mm/min)	%	ISO 527-2	10
Charpy notched impact strength (+23°C)	kJ/m²	ISO 179/1eA	2.5
Vicat Softening Temperature	°C	ISO 306	152

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

Prcessing Guidlines

The Typical Processing Conditions for Luban EP2300V are:

Melt temperature	180 – 240 °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.

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Storage and Handling

Luban EP2300V 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 EP2300V 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 EP2300V 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:
Values given here are typical and should not be interpreted as specification. Before using OQ product, customers and other users should make their own independent determination that the product is suitable for the intended use. This document does not constitute a warranty, express or implied, including a warranty of merchantability or fitness for a particular purpose. In addition, no immunity under OQ or third parties' intellectual property rights shall be implied from this document. No one is authorized to make any warranties, issue any immunities or assume any liabilities on behalf of OQ except in a writing signed by an authorized OQ employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at OQ's option, and in no event shall OQ be liable for special, consequential, incidental, punitive or exemplary damages.

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