Provisional

Luban EP2348UC

Polypropylene Impact Copolymer

Description

Luban EP2348UC is manufactured using the Spheripol Technology. Luban EP2348UC is a nucleated impact copolymer polypropylene with antistatic additivation, used in injection molding applications. The grade exhibits a good impact/stiffness balance combined with a high flow. The grade is recommended for applications like containers, houseware, toys and in thin wall containers for food packaging (e.g. margarine tubs, yoghurt pots).

Application

Thin wall injection molding (TWIM) containers for deep freeze packaging, houseware, containers, sports, leisure & toys.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	70
Density	g /cm³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1450
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	28
Tensile strain at yield (50 mm/min)	%	ISO 527-2	5
Tensile strain at break (50 mm/min)	%	ISO 527-2	30
Charpy notched impact strength (+23°C)	kJ/m²	ISO 179/1eA	4
Charpy notched impact strength (0°C)	kJ/m²	ISO 179/1eA	3.5
Charpy notched impact strength (-20°C)	kJ/m²	ISO 179/1eA	3
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	95
Vicat Softening Temperature	°C	ISO 306-A	151

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 EP2348UC 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

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Storage and Handling

Luban EP2348UC 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 EP2348UC 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 EP2348UC 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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