



Luban RP2245UC

Polypropylene Random Copolymer

Description

Luban RP2245UC is manufactured using the Spheripol Technology. Luban RP2245UC is a clarified polypropylene random copolymer for injection molding with antistatic additivition. Luban RP2245UC exhibits high fluidity in combination with a good transparency and gloss performance. Luban RP2248UC is typically used in houseware and in food packaging. Its high fluidity allows short processing cycle times, and molding of very thin wall items with a complex geometry.

Application

Thin wall injection molding (TWIM) clear containers, glasses, tubs and pots for dairy products.

Properties (Typical Values)

| Property | Units | Test method | Value |
|--|--------------------|-------------|-------|
| Melt flow rate (230°C/2.16 kg) | g/10 min | ISO 1133 | 75 |
| Density | g /cm ³ | ISO 1183 | 0.90 |
| Tensile modulus (1 mm/min) | MPa | ISO 527-2 | 1000 |
| Tensile stress at yield (50 mm/min) | MPa | ISO 527-2 | 29 |
| Tensile strain at yield (50 mm/min) | % | ISO 527-2 | 12 |
| Charpy notched impact strength (+23°C) | kJ/m ² | ISO 179/1eA | 4 |
| Heat Deflection Temperature (0.45 MPa) | °C | ISO 75-2 | 77 |
| Vicat Softening Temperature | °C | ISO 306-A | 125 |

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

Processing Guidelines

The Typical Processing Conditions for Luban RP2248UC 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.



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Storage and Handling

Luban RP2245UC 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 RP2245UC 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 RP2245UC 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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