



## 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 additivation. 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 <sup>3</sup> | 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 <sup>2</sup>  | 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:

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Melt temperature</b> | 220 – 260 °C                                               |
| <b>Holding pressure</b> | 200 – 500 bar Maximum to avoid sink marks                  |
| <b>Mold temperature</b> | 20 – 40 °C                                                 |
| <b>Injection speed</b>  | High                                                       |
| <b>Shrinkage</b>        | 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.



## Luban RP2245UC Polypropylene Random Copolymer

### Storage and Handling

Luban RP2245UC should be stored in well ventilate area during handling or processing of to prevent accumulation of dust and fumes. Avoid contact with strong oxidizers, excessive heat, sparks or open flame as this could well speed up alteration and consequently loss of quality of the material in which could lead to unforeseen dangers. The bags must be protected from direct sunlight and should be stored in shaded and completely dry area for good processing.

### 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.

Updated: Feb. 2021

### 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.