

## Provisional

# Luban RP2251R Polypropylene Random Copolymer



### Description

Luban RP2251R is manufactured using the Spheripol Technology. Luban RP2251R is a clarified polypropylene random copolymer for producing injection molded & ISBM articles. Luban RP2251R offers good flowability, excellent transparency and superior aesthetic performance. Also contains antistatic agent that reduces static charge build-up on products.

Luban RP2251R can be processed at lower processing temperatures, allows reduction in energy consumption and improved productivity.

### Applications

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Transparent containers, housewares items, caps & closures, bottles (ISBM), and lids.

### Properties (Typical Values)

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| Property                               | Units              | Test method | Value |
|----------------------------------------|--------------------|-------------|-------|
| Melt flow rate (230°C/2.16 kg)         | g/10 min           | ISO 1133    | 25    |
| Density                                | g /cm <sup>3</sup> | 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   | 30    |
| Tensile strain at yield (50 mm/min)    | %                  | ISO 527-2   | 11    |
| Tensile strain at break (50 mm/min)    | %                  | ISO 527-2   | > 50  |
| Charpy notched impact strength (+23°C) | kJ/m <sup>2</sup>  | ISO 179/1eA | 6.0   |
| Charpy notched impact strength (0°C)   | kJ/m <sup>2</sup>  | ISO 179/1eA | 2     |
| Heat Deflection Temperature (0.45 MPa) | °C                 | ISO 75-B    | 80    |
| Haze, (1 mm - injection molded disc)   | %                  | ASTM D1003  | 9     |
| Vicat Softening Temperature (10N)      | °C                 | ISO 306-A   | 130   |

**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 RP2251R are:

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Melt temperature</b> | 190 – 230 °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.

This document is classified as "Confidential" information, Please share this information on a "Need-to-Know" basis.

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### Storage and Handling

Luban RP2251R 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

afety

Luban RP2251R 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 RP2251R 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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