

Luban EP2348R

Polypropylene Impact Copolymer



Description

Luban EP2348R is manufactured using the Spheripol Technology. Luban EP2348R is a nucleated impact copolymer polypropylene with antistatic agent, suitable for injection molding applications. The grade exhibits an excellent stiffness / impact balance combined with a medium flow. The grade exhibits low creep, good dimensional consistency and excellent warpage control. The grade is recommended for toys, furniture and thin wall injection molding (TWIM) items.

Application

Houseware, pails, containers, furniture, sports, leisure & toys.

Properties (Typical Values)

| Property | Units | Test method | Value |
|-------------------------------------|--------------------|-------------|-------|
| Melt flow rate (230°C/2.16 kg) | g/10 min | ISO 1133 | 21 |
| Density | g /cm ³ | ISO 1183 | 0.90 |
| Tensile modulus (1 mm/min) | MPa | ISO 527 | 1500 |
| Tensile stress at yield (50 mm/min) | MPa | ISO 527 | 28 |
| Elongation at Yield | % | ISO 527 | 5 |
| Tensile Stress at Break (50 mm/min) | MPa | ISO 527 | 18 |
| Elongation at Break | % | ISO 527 | >50 |
| Notched Charpy Impact (+ 23°C) | kJ/m ² | ISO 179 | 6.5 |
| Notched Charpy Impact (0°C) | kJ/m ² | ISO 179 | 4.0 |
| Notched Charpy Impact (-20°C) | kJ/m ² | ISO 179 | 3.5 |
| Vicat Softening Point (10N) | °C | ISO 306/A | 151 |
| Heat Deflection Temperature | °C | ISO 75 | 106 |

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 EP2348R 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 EP2348R 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 EP2348R 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 EP2348R 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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