Luban RP2248N
Polypropylene Random Copolymer

Description

Luban RP2248N is manufactured using the Spheripol Technology. Luban RP2248N is a polypropylene random copolymer with good flowability for injection molding applications. Luban RP2248N is clarified for improved productivity and excellent optical properties (transparency and brilliance). It's antistatic additivation prevents dust deposits and eases items demolding. Typical applications are caps & closures, houseware and rigid packaging items.

Application

Caps & closures, clear containers, houseware, sports, leisure & toys, injection stretch blow molding (ISBM) bottles.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	11
Density	g /cm³	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	14
Tensile strain at break (50 mm/min)	%	ISO 527-2	> 50
Charpy notched impact strength (+23°C)	kJ/m²	ISO 179/1eA	6
Charpy notched impact strength (0°C)	kJ/m²	ISO 179/1eA	2
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	76
Vicat Softening Temperature	°C	ISO 306-A	130
Haze, (1 mm - injection molded disc)	%	ASTM D1003	9

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 RP2248N 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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Note: Processing parameters should only be used as guidelines. The above properties values are not to be construed as specifications.

Storage and Handling

Luban RP2248N 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 RP2248N 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 RP2248N 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: March. 2023

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.

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