



Luban RP4225M

Polypropylene Random Copolymer

Description

Luban RP4225M is manufactured using the Spheripol Technology. Luban RP4225M is a polypropylene random copolymer, with slip and anti-blocking additives. It is typically used for manufacturing high transparent cast films. This grade is recommended for packaging of foodstuffs, packaging of books and stationery as typical applications. Luban RP4225M exhibits high clarity, high gloss and heat weldability.

Application

Food packaging film, stationery film, textile packaging film.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	8.5
Density	g /cm ³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1100
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	30
Tensile strain at yield (50 mm/min)	%	ISO 527-2	12
Tensile strain at break (50 mm/min)	%	ISO 527-2	> 50
Charpy notched impact strength (+23°C)	kJ/m ²	ISO 179/1eA	6
Charpy notched impact strength (0°C)	kJ/m ²	ISO 179/1eA	2
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	75
Vicat Softening Temperature	°C	ISO 306-A	140

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 RP4225M are:

Average Extrusion Temperatures	180 – 230 °C
Recommended Melt Temperature	210 – 220 °C

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Storage and Handling

Luban RP4225M 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 RP4225M 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 RP4225M 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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