



Luban RP4220M

Polypropylene Random Copolymer

Description

Luban RP4220M is manufactured using the Spheripol Technology. Luban RP4220M is a random copolymer polypropylene designed for metallisable cast film applications, offering high gloss, good optical and metal adhesion performance. Luban RP4220M contains antiblocking agent and it does not contain slip and calcium stearate.

Applications

Metallisable cast film, stationery film, textile packaging, food and non-food film

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	8
Density	g /cm ³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	900
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	27
Tensile strain at yield (50 mm/min)	%	ISO 527-2	11
Charpy notched impact strength (+23°C)	kJ/m ²	ISO 179/1eA	5.0
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	72
Vicat Softening Temperature	°C	ISO 306	130
Haze, (50µ - film)	%	ASTM D1003	0.7
Glose, (50µ - film)	%	ASTM D2457	90

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 RP4220M are:

Barrel temperature 200 – 230°C
Die temperature 230 – 250°C
Chill roll temperature 20 – 25°C

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



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Storage and Handling

Luban RP4220M 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 RP4220M 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 RP4220M 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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