Luban HP3107K
Polypropylene Homopolymer

Description

Luban HP3107K is manufactured using the Spheripol Technology. Luban HP3107K is a homopolymer polypropylene designed for the production of biaxially oriented polypropylene films (BOPP). The product is suitable for metallizable film, both as monolayer and in coextruded structures.

Application

Core layer in BOPP film. Packaging bags for food and non-food, plain and laminated garment bags, plain and pigmented label film, lamination film, plain overwrap film, plain and colored adhesive tapes.

Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	3.0
Density	g /cm³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1450
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	34
Tensile strain at yield (50 mm/min)	%	ISO 527-2	9
Tensile strain at break (50 mm/min)	%	ISO 527-2	> 50
Charpy notched impact strength	kJ/m²	ISO 179/1eA	4
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	85
Vicat Softening Temperature	°C	ISO 306	154

Note: These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

Processing Guidlines

The Typical Processing Conditions for Luban HP3107K are:

Extrusion Temperatures	200 – 250 °C
Chill Roll Temperature	20 – 40 °C
MD Stretching Temperature	130 – 160 °C
MD Stretching Ratio	4 – 7
TD Stretching Temperature	155 – 170 °C
TD Stretching Ratio	7 – 10

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 HP3107K 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 HP3107K 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 HP3107K 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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