



Luban HP1102K (Moplen HP550J)

Polypropylene Homopolymer



Description

Luban HP1102K polypropylene is a medium flow Homopolymer grade recommended for the production of films that can be converted into stretched tapes for weaving applications.

Application

Raffia, tapes and strapping

Properties (Typical Values)

Property	Units	Test method	Value*
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	3.4
Density	g /cm ³	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1400
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 (+23°C)	kJ/m ²	ISO 179/1eA	4
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	90
Vicat Softening Temperature	°C	ISO 306	155

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 HP1102K are:

Extrusion Temperatures	220 – 265 °C
Water Bath Temperature	35 – 45 °C
Orientation Temperatures Hot plate	100 – 140 °C
Hot rolls	100 – 140 °C
Oven air	140 – 160 °C
Draw Ratio	1.5 – 1.7

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 HP1102K should be stored in well ventilate area during handling or processing of to prevent accumulation of dust and fumes. Avoid contact with strong oxidizers, excessive heat, sparks or open flame as this could well speed up alteration and consequently loss of quality of the material in which could lead to unforeseen dangers. The bags must be protected from direct sunlight and should be stored in shaded and completely dry area for good processing.

Safety

Luban HP1102K 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 HP1102K 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: Oct. 2019

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