



# Luban EP2300K (Moplen EP300K)

## Polypropylene Impact Copolymer



### Description

Luban EP2300K is a low fluidity impact copolymer polypropylene suitable for injection molding as well as compression molding applications. The product exhibits very high impact strength even at low temperature combined with a good stiffness. Luban EP2300K is specifically recommended for compression molded caps for CSD bottles.

### Application

Caps & closures, containers, housewares, sports, leisure & toys

### Properties (Typical Values)

Property	Units	Test method	Value*
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	4
Density	g /cm <sup>3</sup>	ISO 1183	0.90
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1200
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	27
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 <sup>2</sup>	ISO 179/1eA	13
Charpy notched impact strength (0°C)	kJ/m <sup>2</sup>	ISO 179/1eA	5.5
Charpy notched impact strength (-20°C)	kJ/m <sup>2</sup>	ISO 179/1eA	4.5
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	75
Vicat Softening Temperature	°C	ISO 306-A	150

**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 EP2300K are:

<b>Melt temperature</b>	220 – 260 °C
<b>Holding pressure</b>	200 – 500 bar Maximum to avoid sink marks
<b>Mold temperature</b>	20 – 40 °C
<b>Injection speed</b>	High
<b>Shrinkage</b>	1 – 2 % depending on wall thickness and molding parameters

**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 EP2300K 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 EP2300K 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 EP2300K 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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