



# Luban EP2302K

## Polypropylene Impact Copolymer

### Description

Luban EP2302K is manufactured using the Spheripol Technology. Luban EP2302K 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 temperatures combined with a good stiffness.

### Application

Containers, houseware, sports, leisure & toys, caps & closures.

### Properties (Typical Values)

Property	Units	Test method	Value
Melt flow rate (230°C/2.16 kg)	g/10 min	ASTM D1238	3.5
Density	g /cm <sup>3</sup>	ASTM D792B	0.90
Flexural modulus	MPa	ASTM D790	1200
Tensile stress at yield (50 mm/min)	MPa	ASTM D638	27
Tensile strain at yield (50 mm/min)	%	ASTM D638	9
Izod notched impact strength (+23°C)	J/m	ASTM D256	120
Izod notched impact strength (-20°C)	J/m	ASTM D256	50
Vicat Softening Temperature (10N)	°C	ASTM D1525	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 EP2302K 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 EP2302K 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 EP2302K 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 EP2302K 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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