



# Luban EP2302K (Moplen LE301K)

## Polypropylene Impact Copolymer



### Description

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 temperature combined with a good stiffness. Luban EP2300K is specifically recommended for 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           | 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 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 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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