



# Luban HP2100N (former Luban 1100N)

## Polypropylene Homopolymer



### Description

Luban polypropylene is manufactured using Novolen vertical stirred Gas-phase polymerization process.  
Luban HP2100N is Homopolymer polypropylene injection molding grade.

### Application

General injection molding, closures, furniture, house-ware.

### Properties (Typical Values)

Property	Units	Test method	Value*
Melt flow rate (230°C/2.16 kg)	g/10 min	ISO 1133	12
Density	g /cm <sup>3</sup>	ISO 1183	0.91
Tensile modulus (1 mm/min)	MPa	ISO 527-2	1550
Tensile stress at yield (50 mm/min)	MPa	ISO 527-2	35
Tensile strain at yield (50 mm/min)	%	ISO 527-2	8
Tensile strain at break (50 mm/min)	%	ISO 527-2	> 50
Charpy unnotched impact strength (+23°C)	kJ/m <sup>2</sup>	ISO 179/1eU	110
Charpy notched impact strength (+23°C)	kJ/m <sup>2</sup>	ISO 179/1eA	3
Izod notched impact strength (+23°C)	kJ/m <sup>2</sup>	ISO 180/1A	3
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2	85

### Processing Guidelines

The Typical Processing Conditions for Luban HP2100N 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.



# Luban HP2100N (former Luban 1100N) Polypropylene Homopolymer



## Storage and Handling

Luban HP2100N 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 HP2100N 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 HP2100N 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.

Document Ref.: TDS - Luban HP2100N

Version: Jan. 2018

### Disclaimer:

Values given here are typical and should not be interpreted as specification. Before using ORPIC product, customers and other users should make their own independent determination that the product is suitable for the intended use. This document does not constitute a warranty, express or implied, including a warranty of merchantability or fitness for a particular purpose. In addition, no immunity under ORPIC or third parties' intellectual property rights shall be implied from this document. No one is authorized to make any warranties, issue any immunities or assume any liabilities on behalf of ORPIC except in a writing signed by an authorized ORPIC employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at ORPIC's option, and in no event shall ORPIC be liable for special, consequential, incidental, punitive or exemplary damages.