



## Luban HP2148P

### Polypropylene Homopolymer

#### Description

Luban HP2148P is manufactured using the Spheripol Technology. Luban HP2148P is a homopolymer polypropylene used particularly for injection molding applications requiring high rigidity. It exhibits high stiffness and good flow. Luban HP2148P is nucleated and has antistatic additive, it is suitable for food contact.

#### Application

Sporting goods, toys, caps and closures.

#### Properties (Typical Values)

| Property                            | Units              | Test method | Value |
|-------------------------------------|--------------------|-------------|-------|
| Melt flow rate (230°C/2.16 kg)      | g/10 min           | ASTM D1238  | 20    |
| Density                             | g /cm <sup>3</sup> | ASTM D792B  | 0.90  |
| Flexural Modulus (1% secant)        | MPa                | ASTM D790A  | 1730  |
| Tensile stress at yield (50 mm/min) | MPa                | ASTM D638   | 37.9  |
| Tensile strain at yield (50 mm/min) | %                  | ASTM D638   | 8.5   |
| Notched impact strength (+23°C)     | J/m                | ASTM D256   | 42    |
| Rockwell hardness                   | R                  | ISO 75-2    | 97    |

**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 HP2148P 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 HP2148P 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 HP2148P 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 HP2148P 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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