



# Luban HMA-016

## High Density Polyethylene

### Description

Luban HMA-016 is a high-density polyethylene characterized by fast cycling and good impact strength. The grade is intended for use in injection molding applications such as closures, food packaging containers, housewares & toys.

Main Characteristics:

- Butene High Density Resin
- Fast cycling & good impact strength
- Narrow molecular weight distribution

### Application

Injection molded closures, food packaging containers, housewares & toys

### Properties (Typical Values)

| Property  | Unit               | Test method             | Value |
|---|--------------------|-------------------------|-------|
| Melt Index (190°C/2.16 kg)  | g/10 min           | ASTM D1238              | 20    |
| Density   | g /cm <sup>3</sup> | ASTM D792               | 0.956 |
| Environmental Stress-Cracking Resistance<br>122°F (50°C), 10% Igepal, F50 | hr                 | ASTM D1693 <sup>1</sup> | 2     |
| Tensile stress at yield   | MPa                | ISO 527-2/1A/50*        | 23    |
| Tensile strain at yield   | %                  | ISO 527-2/1A/50*        | 10    |
| Tensile strain at break   | %                  | ISO 527-2/1A/50*        | >100  |
| Notched Izod Impact Strength  | kJ/m <sup>2</sup>  | ISO 180/1A*             | 4     |
| Heat Deflection Temperature (0.45 MPa)                                    | °C                 | ISO 75-2/B*             | 61    |

<sup>1</sup>Molded and tested in accordance with ASTM D4976.

\*The molded properties were measured on 4 mm thick injection molded specimen based on ISO 1872-2

**Note:** These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.



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### Storage and Handling

Luban HMA-016 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 HMA-016 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 HMA-016 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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