Manufacturer website: https://oq.com/en/

Luban HD-M5620

(Legacy name: Luban HMA-016)

High Density Polyethylene

Description

Luban HD-M5620 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 /cm³	ASTM D792	0.956
Environmental Stress-Cracking Resistance 122°F (50°C), 10% Igepal, F50	hr	ASTM D1693[1]	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/m²	ISO 180/1A*	4
Heat Deflection Temperature (0.45 MPa)	°C	ISO 75-2/B*	61

[1]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 HD-M5620 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 HD-M5620 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 HD-M5620 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.

Updated: August. 2025

Disclaimer:
Values given here are typical and should not be interpreted as specification. Before using OQ 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 OQ 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 OQ except in a writing signed by an authorized OQ employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at OQ's option, and in no event shall OQ be liable for special, consequential, incidental, punitive or exemplary damages.

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