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

Luban LL-M2420

(Legacy name: Luban DNDA-8320)

Linear Low Density Polyethylene

Description

Luban LL-M2420 is a narrow molecular weight distribution butene LLDPE grade intended for use in injection molded applications. This resin has been designed to have an excellent low temperature impact strength, rigidity, environmental stress crack resistance and processability.

Application

Injection molded food containers, housewares and lids, shopping baskets

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	0.924
Environmental Stress-Cracking Resistance 122°F (50°C), 100% Igepal, F50	hr	ASTM D1693	20
Flexural Modulus - 2% Secant	MPa	ASTM D1822	386
Tensile stress at yield	MPa	ASTM D638	12
Tensile elongation at yield	%	ASTM D638	3
Tensile stress at break	MPa	ASTM D638	8
Tensile elongation at break	%	ASTM D638	60
Tensile Impact Strength	kJ/m²	ASTM D1822	168
Melting Temperature (DSC)	°C	ASTM D3418	123
Deflection Temperature Under Load 0.45 MPa, Unannealed	°C	ASTM D648	43
Vicat Softening Temperature	°C	ASTM D1525	93.9

* Tests performed on plaque molded and tested in accordance with ASTM D4976.

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 LL-M2420 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 LL-M2420 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 LL-M2420 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:
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