

Luban LLh-R3904UV

(Legacy name: Luban DNDC-7150)

Medium Density Polyethylene

Description

Luban LLh-R3904UV Medium Density Polyethylene (MDPE) grade is a hexene copolymer with narrow molecular weight distribution. This grade is intended for use in rotational molding applications such as outdoor storage containers. The grade is UV stabilized.

Application

Roto-molded loft tanks (water), agriculture tanks, industrial pallets, trash containers, chemical shipping drums, water park slides

Properties (Typical Values)

Property	Unit	Test method	Value
Melt Index (190°C/2.16 kg)	g/10 min	ASTM D1238	3.5
Density	g /cm ³	ASTM D792	0.939
Environmental Stress-Cracking Resistance 122°F (50°C), 100% Igepal, F50	hr	ASTM D1693 ¹	>1000
1% Secant Modulus	MPa	ASTM D638	550
Tensile stress at yield	MPa	ASTM D638	17
Tensile stress at break	MPa	ASTM D638	19
Tensile elongation at break	%	ASTM D638	660
Brittleness Temperature	°C	ASTM D746	<-100

¹ Tested on 1.9 mm specimen, slit

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 LLh-R3904UV 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 LLh-R3904UV 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 LLh-R3904UV 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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