Luban LL-R3605UV

(Legacy name: Luban LL-8446.21)

Linear Low-Density Polyethylene

Description

Luban LL-R3605UV is a LLDPE butene copolymer designed to offer excellent processability, whiteness, and fast grinding rate. This Long-term UV-8 stabilized resin is ideally suited for applications that require excellent dimensional control and low warpage.

Application

Consumer articles, toys, roto-molded tanks, 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	5
Density	g /cm³	ASTM D792	0.936
Environmental Stress-Cracking Resistance 122°F (50°C), 100% Igepal, F50	hr	ASTM D1693 B	>100
Flexural Modulus – 1% Secant	MPa	ASTM D790 B	520
Tensile stress at yield	MPa	ASTM D638	20
Tensile strain at yield	%	ASTM D638	9
Notched Izod Impact Strength @23 °C	J/m	ASTM D256	110
Deflection Temperature Under Load 0.45 MPa, Unannealed	°C	ASTM D648	57
Vicat Softening Temperature	°C	ASTM D1525	114

*Testing of all physical properties were done on 3 mm Roto-molded samples. ESCR testing done on compression molded samples.

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

Storage and Handling

Luban LL-R3605UV 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.

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Safety

Luban LL-R3605UV 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-R3605UV 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: June. 2026

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.