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

Luban mLL-C1804

(Legacy name: Luban HPR3518CB)

Linear Low Density Polyethylene

Description

Luban mLL-C1804 is metallocene LLDPE grade made using Hexene co-monomer. Films made using this grade has outstanding tensile properties with very good impact and puncture toughness. These superior properties along with excellent draw down capability makes this grade versatile for mono-layer and multi-layer cast film applications.

Additives:
- Thermal Stabilizer

Application

Cast stretch films, bag in box, food packaging films, diaper back sheet, FFS packaging films, hygiene films, blown films, multi-layer packaging films

Properties (Typical Values)

Property	Unit	Test method	Value*
Melt Index (190°C/2.16 kg)	g/10 min	ASTM D1238	3.5
Density	g /cm³	ASTM D792	0.918
Tensile strength at break (MD/TD)	MPa	ASTM D882	70/47
Elongation at break (MD/TD)	%	ASTM D882	510/680
Secant modulus – 1% secant (MD/TD)	MPa	ASTM D882	110/120
Dart Drop Impact	g	ASTM 1709A	140
Elmendorf tear strength (MD/TD)	g	ASTM D1922	190/500
Puncture Energy	J	OQ Method	4.29
Gloss (45°)		ASTM D2457	86
Haze	%	ASTM D1003	2.4
Melting Temperature (DSC)	°C	ASTM D3418	114

*The film properties have been measured on 20 µm (0.8 mil) thick films produced on a cast film line run at melt temp. 277-310°C, chill roll temp. 27°C and line speed 230 m/min.

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 mLL-C1804 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 mLL-C1804 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 mLL-C1804 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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