

# Luban mLL-F1802

(Legacy name: Luban HPR 2018HA)

## Linear Low-Density Polyethylene



### Description

Luban mLL-F1802 is metallocene LLDPE grade made using Hexene co-monomer. Films made using this grade has outstanding tensile, puncture resistance and very good sealing properties. These superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin. The higher melt index makes this polymer ideally suited for blending into LDPE rich films.

Additives:

- Thermal Stabilizer.
- Processing aid .
- No Slip.
- No Anti-block.

### Application

Agricultural Film, bag in box, food packaging films, standup pouches, FFS packaging films, freezer films, Overwrap 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	2
Density	g /cm <sup>3</sup>	ASTM D792	0.918
Tensile stress at break (MD/TD)	MPa	ASTM D882	60/60
Elongation at break (MD/TD)	%	ASTM D882	590/700
Secant modulus – 1% secant (MD/TD)	MPa	ASTM D882	160/180
Dart Drop Impact	g	ASTM 1709A	670
Elmendorf tear strength (MD/TD)	g	ASTM D1922	330/460
Puncture Energy	J	OQ Method	4.29
Gloss (60o)		ASTM D2457	18
Haze	%	ASTM D1003	37
Melting Temperature (DSC)	°C	ASTM D3418	118

\*The film properties have been measured on 25.4 µm (1 mil) thick films (Blow-up ratio: 2.5)

**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-F1802 should be stored in well ventilate area during handling or processing of to prevent accumulation of dust and fumes. Avoid contact with strong oxidizers, excessive heat, sparks or open flame as this could well speed up alteration and consequently loss of quality of the material in which could lead to unforeseen dangers. The bags must be protected from direct sunlight and should be stored in shaded and completely dry area for good processing.

### Safety

Luban mLL-F1802 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-F1802 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:

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.