



Luban mLL-F1801

(Legacy name: Luban HPR1018HA)

Linear Low Density Polyethylene

Description

Luban mLL-F1801 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 properties along with excellent draw down capability makes this grade versatile for mono-layer and multi-layer blown film applications.

Additives:

- Thermal Stabilizer
- Processing aid

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	1
Density	g /cm ³	ASTM D792	0.918
Tensile stress at break (MD/TD)	MPa	ASTM D882	86/68
Elongation at break (MD/TD)	%	ASTM D882	560/680
Secant modulus – 1% secant (MD/TD)	MPa	ASTM D882	170/180
Dart Drop Impact	g	ASTM 1709A	700
Elmendorf tear strength (MD/TD)	g	ASTM D1922	230/350
Puncture Energy	J	OQ Method	4.29
Gloss (60°)		ASTM D2457	14
Haze	%	ASTM D1003	3
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-F1801 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-F1801 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-F1801 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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