

Technical Datasheet

E1518LM Polysure Metallocene LLDPE

Extrusion Lamination

Product Characteristics:

Polysure E1518LM is a 1-hexene comonomer based Linear Low-Density Polyethylene, produced by Gas Phase – UNIPOL™ PE technology, using Metallocene Catalyst and primarily suitable for Extrusion Coating Process. This grade offers smooth processing & superior drawdown characteristics. Coating layers produced with E1518LM have outstanding sealing properties and broad hot tack window.

Recommended Applications:

Extrusion Lamination, Coextrusion Coating, Food Packaging, Packaging Films, Masterbatch Carrier, Building & Construction Laminates, Liquid Packaging, W&C Compound

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
Resin Properties:				
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g/10 min	15
2	Density (23°C)	ASTM D1505	g/cc	0.918
3	Peak Melting Temperature	ASTM D3418	°C	115
4	Vicat Softening Temperature	ASTM D1525	°C	96

Processing Guidelines:

- Melt Temperature : 270 - 310°C
- Minimum Air Gap : 150 mm

Storage & Handling:

Bags should be stored in dry & dust free environment at temperature below 50°C and Prevent from direct exposure to sunlight & heat to avoid quality deterioration.

This grade meets the requirements of IS 7328:2020 - Specification for Polyethylene Material for Moulding and Extrusion.

Regulatory Requirements:

E1518LM to be manufactured complying the requirements specified in IS 10146 on "Specification for Polyethylene for its safe in contact with Foodstuff, Pharmaceutical & Drinking water". Furthermore, the Additives added in this grade formulation compiles to the "Positive list of constituents for Polypropylene, Polyethylene and their Copolymers for its safe use in contact with Foodstuffs & Pharmaceuticals" as laid down under IS 16738:2018. In general, the additives & constituents used in the grade are in line with requirements laid down under FDA: CFR Title 21,177.1520, Olefin Polymers.

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