

Technical Datasheet

E0725L Polysure LLDPE

Extrusion Coating

Product Characteristics:

Polysure E0725L is a 1-butene comonomer based Linear Low-Density Polyethylene, produced by Gas Phase – UNIPOL™ PE technology and primarily suitable for Extrusion Coating process. E0725L offers Low Neck-in & Superior Adhesion with the substrates in high line speed applications.

Recommended Applications:

Extrusion Coating on HDPE Woven Fabrics, Jute, Aluminum foil, Paper & Allied Substrates

Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g/10 min	7.0
2	Density (23°C)	ASTM D1505	g/cc	0.925
3	Tensile Strength at Yield, Type IV Specimen	ASTM D638 (50 mm / min)	MPa	11
4	Tensile Strength at Break, Type IV Specimen		MPa	15
5	Tensile Elongation at Break, Type IV Specimen		%	600
6	Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	500
7	Flexural Modulus (2% Secant)	ASTM D790B	MPa	250
8	Vicat Softening Point (10N)	ASTM D1525	°C	95

*All the mechanical properties are tested on Compression Molded Test Specimen, prepared in accordance with ASTM D4703

Processing Guidelines:

- Barrel Temperature : 180 - 230°C
- Die Temperature : 190 - 240

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:

E0725L 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 requirement laid down under FDA: CFR Title 21,177.1520, Olefin Polymers.

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