

TECHNICAL DATA SHEET
72307E

72307E is a LLDPE produced by the Spherilene Technology

72307E can be used in Extrusion Coating on HDPE Woven Fabric, Aluminium Foil, Jute, Paper & Allied Substrates

The precise morphological control achieved during polymerization confers superior processability and improved performance properties not available in conventional LLDPE.

BIS Designation Code: IS 7328-2B-HB-CDD

Property	Test Method	Unit	Nominal Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238, IS 13360 (Part 4/Sec 1)	g/10 min	7.0
Melt Flow Index (5 kg, 190°C)			19.0
Melt Flow Index (21.6 kg, 190°C)	ASTM D1238	g/10 min	165
Density (23°C)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm ³	0.926

Physical Property

Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	18
Elongation at Break		%	500
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	500
Flexural Modulus	ASTM D790A	MPa	300
Vicat Softening Point (10 N)	ASTM D1525	°C	102
DSC Melting Temperature	ASTM D3418	°C	126

Suggested Processing Conditions

Barrel Temperature	200 – 270 °C
Die Temperature	250 – 280 °C

* Halene L is the registered trademark of Linear Low-Density Polyethylene of Haldia Petrochemicals Limited

Mechanical Properties are on Injection Molded test specimens.

This grade meets the requirements of:

IS 7328:2020 Specification for Polyethylene Material for Moulding and Extrusion

IS 16738:2018 Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals

IS 10146 for use in contact with foodstuffs, pharmaceuticals, and drinking water.

This product is not recommended for manufacturing of Single Use Plastic (SUP) items listed under Plastics Waste Management (PWM) Rule 2016 and its latest amendment

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