

TECHNICAL DATA SHEET

71501S

71501S is a LLDPE blown film grade produced by the Spherilene Technology

This grade can be used in General Purpose Packaging Film Applications

71501S is additivated with slip and anti-blocking additives for excellent openability and slip properties

BIS Designation Code: IS 7328-2B-FBH-BDA

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	1.0
Melt Flow Index (5 kg, 190°C)			2.6
Melt Flow Index (21.6 kg, 190°C)			23
Density (23°C)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm ³	0.922
DSC Melting Temperature	ASTM D3418	°C	126
Film Property **			
Tensile Strength at Yield MD	ASTM D882 (500 mm/min)	MPa	10
Tensile Strength at Yield TD		MPa	10
Tensile Strength at Break MD		MPa	25
Tensile Strength at Break TD		MPa	16
Elongation at Break MD		%	650
Elongation at Break TD		%	750
Elmendorf Tear Strength MD	ASTM D1922	g/μ	6
Elmendorf Tear Strength TD		g/μ	16
Dart Impact Strength, F ₅₀ (38 mm Dart, 66 cm Height)	ASTM D1709A	g/μ	4.0
Gloss at 60°	ASTM D2457	GU	76
Suggested Processing Conditions			
Barrel Temperature	180 – 200 °C		
Melt Temperature	190 – 210 °C		
Blow up Ratio	2.0 – 3.0		
Die Gap	2.0 – 2.5 mm		

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

** Typical values with 25 μ film made with 2.5 mm die gap & BUR 2.5

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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