HALDIA PETROCHEMICALS LTD

Halene – L*

TECHNICAL DATA SHEET 71601D

71601D is a LLDPE grade produced by the Spherilene Technology

71601D is suitably additivated for excellent processability in Drip Lateral Pipes

The grade is characterized by controlled morphology, excellent processability and mechanical properties

BIS Designation Code: IS 7328-2B-NB-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)			2.8
Melt Flow Index (21.6 kg, 190°C)	ASTM D1238	g/10 min	23
Density (23°C)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm^3	0.920
Physical Property			
Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	30
Elongation at Break		%	1000
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	500
Flexural Modulus	ASTM D790A	MPa	400
ESCR (F_{50}, 10% Igepal soln. v/v)	ASTM D1693B	Hr	1000
DSC Melting Temperature	ASTM D3418	°C	125
Suggested Processing Conditions			
Barrel Temperature	200 – 240 °C		
Die Temperature	240 – 250 °C		

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

Mechanical Properties are on compression Molded test specimens.

This grade meets the requirements of:

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

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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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