

TECHNICAL DATA SHEET

HD T10S

HD T10S is a HDPE monofilament grade produced by Spherilene Technology

This grade can be used in monofilament for Nets, Twines & Ropes

HD T10S is characterized by excellent processability and mechanical strength

BIS Designation Code: IS 7328-3B-LB-EDA

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	1.1
Melt Flow Index (5 kg, 190°C)			3
Melt Flow Index (21.6 kg, 190°C)			27
Density (23°C)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	26
Tensile Strength at Break		MPa	38
Elongation at Break		%	1100
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	400
Flexural Modulus	ASTM D790A	MPa	1000
Vicat Softening Point (10N)	ASTM D1525	°C	127
DSC Melting Temperature	ASTM D3418	°C	131
Hardness	ASTM D2240	Shore D	61
Suggested Processing Conditions			
Barrel Temperature	200 – 240 °C		
Die Temperature	230 – 250 °C		
Quench Temperature	30 °C		
Stretching Temperature	~ 98 °C (Water)		

* Halene H is the registered trademark of High Density Polyethylene of Haldia Petrochemicals Limited

Mechanical Properties are on specimens from Compression Molded sheets



Halene – H*

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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