

TECHNICAL DATA SHEET

M6007L

M6007L is a Narrow MWD HDPE produced by Spherilene Technology

M6007L is ideally suited for injection molding of heavy-duty Crates & Industrial products.

The precise control of morphology & MWD during polymerization confers superior processability & improved performance properties compared to conventional HDPE grades

BIS Designation Code: IS 7328-3B-MB-EDD

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	7.5
Melt Flow Index (5 kg, 190°C)			22
Melt Flow Index (21.6 kg, 190°C)	ASTM D1238	g/10 min	190
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	24
Elongation at Break		%	750
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	50
Flexural Modulus	ASTM D790A	MPa	850
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	67
Vicat Softening Point (10 N)	ASTM D1525	°C	122
DSC Melting Temperature	ASTM D3418	°C	132
Hardness	ASTM D2240	Shore D	62
Suggested Processing Conditions			
Barrel Temperature	185 – 235 °C		
Nozzle Temperature	200 – 235 °C		

* Halene H is the registered trademark of High-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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