HALDIA PETROCHEMICALS LTD

Halene – H*

TECHNICAL DATA SHEET M6007LU

M6007LU is a Narrow MWD HDPE produced by Spherilene Technology

M6007LU is ideally suited for injection molding of heavy-duty Crates & Industrial products

M6007LU is stabilized adequately with HALS[+] to give long service life under outdoor exposure

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-MD-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		%	800
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

[+] The total Hindered Amine Light Stabilizer (HALS) content is ~ 2000 ppm

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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

The information and data presented herein are typical values of representative samples and should not be construed as specification or tested values of supplied product. Prior to use, buyer shall ensure independently through tests and trials, that HPL products can be handled and used by them legally, safely, and suitably for their intended operation and end-use application. No warranty or guarantee expressed or implied is made regarding performance or otherwise. In no event shall HPL be liable for any damage, loss or injury directly or indirectly suffered as a result of use of product or information provided herein. The information & data contained herein are reliable to the best of our knowledge on the date of release of the document and is subject to change without prior intimation based on research & development work undertaken by HPL

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