

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

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238	g/10 min	7.5
Density (23°C)	ASTM D1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield	ASTM D638	MPa	24
Elongation at Break	(50 mm/min)	%	>500
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	50
Flexural Modulus	ASTM D790A	MPa	850
Hardness	ASTM D2240	Shore D	62
Spiral Flow Length @ 235°C	HPL Method	mm	430
DSC Melting Temperature	ASTM D3418	°C	132
Suggested Processing Conditions			
Barrel Temperature		°C	185 – 235
Nozzle Temperature		°C	200 – 235

* Halene H is the registered trademark of High Density Polyethylene of HPL

Mechanical Properties are on Injection Molded test specimens prepared as per ASTM D4101

⁺ The total Hindered Amine Light Stabiliser (HALS) content is ~ 2000 ppm

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