

## TECHNICAL DATA SHEET

## M5005L

**M5005L** is a Narrow MWD HDPE produced by the Spherilene Technology.

**M5005L** is recommended for injection molding of heavy-duty Crates & Industrial products.

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

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg at 190 °C)	ASTM D 1238	g/10 min	4.5
Density (23 °C)	ASTM D 1505	g/cm <sup>3</sup>	0.950
<b>Physical Property</b>			
Tensile Strength at Yield		MPa	25
Tensile Strength at Break	ASTM D 638 (50 mm/min)	MPa	34
Elongation at Break		%	>1000
Notched Izod Impact Strength (23 °C)	ASTM D 256A	J/m	100
Flexural Modulus	ASTM D 790A	MPa	850
Hardness	ASTM D 2240	Shore D	62
Spiral Flow Length @ 235 °C	HPL Method	mm.	350
DSC Melting Temperature	ASTM D 3418	°C	132
Vicat Softening Point (10N)	ASTM D 1525	°C	124
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	78

### Suggested Processing Conditions

Barrel Temperature	°C	185 – 235
Nozzle Temperature	°C	235

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

Mechanical properties are on injection molded specimens

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