

TECHNICAL DATA SHEET

M5002L

M5002L is a Narrow MWD HDPE produced by the Spherilene Technology.

M5002L is suited for molded Caps and Closures

The precise control of morphology & MWD during polymerization confers superior processability, excellent organoleptics 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	2.5
Density (23 °C)	ASTM D 1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield		MPa	25
Tensile Strength at Break	ASTM D 638 (50 mm/min)	MPa	39
Elongation at Break		%	>1000
Notched Izod Impact Strength (23 °C)	ASTM D 256A	J/m	184
Flexural Modulus	ASTM D 790A	MPa	973
Hardness	ASTM D 2240	Shore D	61
DSC Melting Temperature	ASTM D 3418	°C	131
Vicat Softening Point (10N)	ASTM D 1525	°C	125
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	78
Suggested Processing Conditions			
Barrel Temperature		°C	160 – 190

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

Mechanical properties are on injection molded specimens

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