

TECHNICAL DATA SHEET

M5002L

M5002L is a Narrow MWD HDPE produced by Spherilene Technology

M5002L is suited for injection and extrusion-compression molded Caps & Closures

The precise control of morphology & MWD during polymerization confers superior processability, excellent organoleptics & 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	2.5
Density (23°C)	ASTM D1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield		MPa	25
Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	30
Elongation at Break		%	>700
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	180
Flexural Modulus	ASTM D790A	MPa	950
Hardness	ASTM D2240	Shore D	61
Vicat Softening Point (10 N)	ASTM D1525	°C	125
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	78
DSC Melting Temperature	ASTM D3418	°C	131
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 test specimens prepared as per ASTM D4101

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