

## TECHNICAL DATA SHEET

## M5018L

**M5018L** is an Injection Molding HDPE produced by Spherilene Technology

**M5018L** is recommended for general purpose Injection Molding

**M5018L** combines excellent processability with good mechanical properties

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238	g/10 min	19.0
Density (23°C)	ASTM D1505	g/cm <sup>3</sup>	0.950
<b>Physical Property</b>			
Tensile Strength at Yield	ASTM D638	MPa	22
Elongation at Break	(50 mm/min)	%	450
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	35
Flexural Modulus	ASTM D790A	MPa	800
Hardness	ASTM D2240	Shore D	62
Spiral Flow Length @ 235°C	HPL Method	mm	600
Vicat Softening Point (10 N)	ASTM D1525	°C	126
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	78 <sup>®</sup>
DSC Melting Temperature	ASTM D3418	°C	132
<b>Suggested Processing Conditions</b>			
Barrel Temperature		°C	180 – 235
Nozzle Temperature		°C	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

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