

TECHNICAL DATA SHEET

M5018L

M5018L is an Injection Molding Grade HDPE produced by Spherilene Technology.

This resin 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 at 190 °C)	ASTM D 1238	g/10 min	19.0
Density (23 °C)	ASTM D 1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield	ASTM D 638	MPa	22
Elongation at Break	(50 mm/min)	%	350
Notched Izod Impact Strength (23 °C)	ASTM D 256A	J/m	30
Flexural Modulus	ASTM D 790A	MPa	800
Hardness	ASTM D 2240	Shore D	62
Spiral Flow Length @ 235 °C	HPL Method	mm.	600
Vicat Softening Point(10N)	ASTM D 1525	°C	126
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	78
DSC Melting Temperature	ASTM D 3418	°C	132

Suggested Processing Conditions

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 specimens

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