

TECHNICAL DATA SHEET

M5018L

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

This resin is particularly recommended for general-purpose Injection Molded items.

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 (at 23°C)	ASTM D 1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield**	ASTM D 638	MPa	22
Elongation at Break**		%	350
Izod Impact Strength (23 ⁰ C)	ASTM D 256	J/m	30
Flexural Modulus	ASTM D 790	MPa	800
Hardness	ASTM D 2240	Shore D	62
Spiral Flow Length	HPL Method (235°C)	mm.	600
Vicat Softening Point(10N)	ASTM D 1525	°C	78
Heat Deflection Temperature (0.45 MPa)	ASTM D 648	°C	126
DSC Melting Temperature	ASTM D 3418	°C	132

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

** Tensile Properties are on Injection Molded Type IV Specimens as per ASTM D 638

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