

**Product Texts**

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.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>20</b>	g/10min	ASTM D 1238
Temperature	<b>190</b>	°C	-
Load	<b>2.16</b>	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>22</b>	MPa	ASTM D 638
Elongation at Break	<b>450</b>	%	ASTM D 638
Flexural Modulus	<b>800</b>	MPa	ASTM D 790
Shore D Hardness	<b>62</b>	-	ASTM D 2240
Izod Impact notched, 1/8 in	<b>35</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>64</b>	°C	ASTM D 648
Melting Temperature	<b>132</b>	°C	ASTM D 3418
Vicat Temperature	<b>121</b>	°C	ASTM D 1525

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>950</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Zone 1	<b>180 - 235</b>	°C	-
Nozzle temperature	<b>235</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Applications**

General Purpose