

TECHNICAL DATA SHEET

M5018L

M5018L is an Injection Molding 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, 190°C)	ASTM D1238	g/10 min	19.0
Density (23°C)	ASTM D1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield	ASTM D638	MPa	22
Elongation at Break	(50 mm/min)	%	350
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	30
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
DSC Melting Temperature	ASTM D3418	°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 test Specimens prepared as per ASTM D4101

The information & data presented herein are typical values and should not be construed as specification. No warranty or guarantee expressed or implied is made regarding performance. The information & data are subject to change without prior intimation based on research & development work undertaken by the company.

Compliance Certificates & MSDS are available on request.
Visit us at www.haldia Petrochemicals.com