

TECHNICAL DATA SHEET

M5005L

M5005L is a Narrow MWD HDPE produced by Spherilene Technology

M5005L is recommended for injection molding of heavy duty Crates & Industrial products

The precise control of morphology & MWD during polymerization confers superior processability & improved performance properties compared to conventional HDPE grades

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238	g/10 min	4.5
Density (23°C)	ASTM D1505	g/cm ³	0.950
Physical Property			
Tensile Strength at Yield		MPa	22
Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	32
Elongation at Break		%	950
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	100
Flexural Modulus	ASTM D790A	MPa	850
Hardness	ASTM D2240	Shore D	62
Spiral Flow Length @ 235°C	HPL Method	mm	350
Vicat Softening Point (10 N)	ASTM D1525	°C	124
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	78
DSC Melting Temperature	ASTM D3418	°C	132

Suggested Processing Conditions

Barrel Temperature	°C	185 - 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.haldiapetrochemicals.com