

# Halene H M5002L

High Density Polyethylene  
Haldia Petrochemicals Ltd.

Message:

M5002L is a Narrow MWD HDPE produced by the Spherilene Technology.  
M5002L is suited for injection molding of Caps and Closure application.  
The precise control of morphology & MWD during polymerization confers superior processability and improved performance properties compared to conventional HDPE grades.

General Information			
Features	Good Processability		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield, Injection Molded	25.0	MPa	
Break, Injection Molded	39.0	MPa	
Tensile Elongation <sup>2</sup> (Break, Injection Molded)	> 1000	%	ASTM D638
Flexural Modulus	973	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525 <sup>3</sup>
Peak Melting Temperature	131	°C	ASTM D3418
NOTE			
1.	Type IV		
2.	Type IV		
3.	Loading 1 (10 N)		

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