

Halene H M5005L

High Density Polyethylene
Haldia Petrochemicals Ltd.

Message:

M5005L is a Narrow MWD HDPE produced by the Spherilene Technology.
M5005L is ideally suited for injection molding of heavy-duty Crates & Industrial products.
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	Crates		
	Industrial Applications		
Processing Method		Injection Molding	
Physical	Nominal Value	Unit	Test Method
Density ¹	0.950	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Spiral Flow ²	35.0	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³			ASTM D638
Yield, Injection Molded	25.0	MPa	
Break, Injection Molded	34.0	MPa	
Tensile Elongation ⁴ (Break, Injection Molded)	> 1000	%	ASTM D638
Flexural Modulus (Injection Molded)	850	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	100	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648
Vicat Softening Temperature	124	°C	ASTM D1525 ⁵
Peak Melting Temperature	132	°C	ASTM D3418
Injection	Nominal Value	Unit	
Rear Temperature	185 to 235	°C	
Middle Temperature	185 to 235	°C	

Front Temperature	185 to 235	°C
Nozzle Temperature	235	°C
NOTE		
1.	23°C	
2.	Melt Temperature: 235°C	
3.	50 mm/min	
4.	50 mm/min	
5.	Loading 1 (10 N)	

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