

Marlex® HXM 50100-01

High Density (HMW) Polyethylene
Chevron Phillips Chemical Company LLC

Message:

Marlex® HXM 50100-01 is a High Density (HMW) Polyethylene material. It is available in Latin America or North America for blow molding, extrusion, or thermoforming.

Important attributes of Marlex® HXM 50100-01 are:

- Eco-Friendly/Green
- Food Contact Acceptable
- Hexene Comonomer
- High ESCR (Stress Crack Resistant)
- High Molecular Weight

Typical applications include:

- Tanks
- Automotive
- Bags/Liners
- Containers
- Engineering/Industrial Parts

General Information	
Features	Durable Food Contact Acceptable Good Melt Strength Hexene Comonomer High ESCR (Stress Crack Resist.) Low Temperature Impact Resistance Medium Rigidity Recyclable Material Ultra High Molecular Weight
Uses	Agricultural Tanks Automotive Applications Fuel Tanks Liners Pallets Shipping Containers
Agency Ratings	ASTM D 4976-PE235 FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Blow Molding Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	12	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 600	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	25.0	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	750	%	ASTM D638
Flexural Modulus - Tangent ³ (Compression Molded)	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ⁴ (Compression Molded)	170	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	69.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746A
Vicat Softening Temperature	124	°C	ASTM D1525 ⁵
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		
4.	Type S		
5.	Rate A (50°C/h), Loading 1 (10 N)		

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