

# Marlex® HHM 4903

High Density Polyethylene  
Chevron Phillips Chemical Company LLC

Message:

Marlex® HHM 4903 is a High Density Polyethylene material. It is available in Latin America or North America for blow molding, extrusion, or sheet extrusion.

Important attributes of Marlex® HHM 4903 are:

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

Typical applications include:

- Automotive Containers
- Food Contact Applications
- Seating
- Sheet

General Information			
Features	Durable		
	Food Contact Acceptable		
	Good Melt Strength		
	Good Surface Finish		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Recyclable Material		
Uses	Corrugated Sheet		
	Fuel Tanks		
	Industrial Containers		
	Seats		
Agency Ratings	ASTM D 4976-PE235		
	FDA 21 CFR 177.1520(c) 3.2a 2		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	ASTM D1505

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.29	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Compression Molded)	26.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus - Tangent <sup>3</sup> (Compression Molded)	1170	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746A
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		
3.	13 mm/min		

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#### Recommended distributors for this material

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