

# 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
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Brittleness Temperature	< -75.0	°C	ASTM D746A
<b>NOTE</b>			
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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