

## Chevron Phillips Marlex® HHM 4903 High Density Ethylene Hexene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Impact Grade

### Material Notes:

High Density Ethylene Hexene Copolymer Customer Benefits: A high performance copolymer that can measure up to the most demanding application. Specifically formulated to provide toughness and durability, you can expect exceptional ESCR, excellent surface appearance, good melt strength, ease of processing. Applications: Blow molding items such as fuel tanks, seating, garbage cans, large industrial containers, sheet. Extruded items. Processing Recommendations: Blow Molding Stock Temperature: Upper Limit: 216°C, Lower Limit: 171°C Extrusion Melt Temperature: Upper Limit: 216°C, Lower Limit: 194°C Specification Data: ASTM D4976 - PE 235. ASTM D1248 - Type III, Class A, Category 5. FDA Regulation 177.1520 for food packaging at temperatures not exceeding 100°C. Sag Upper Limit: 36 cm, Lower Limit: 25 cm; 2 ft. X 4ft. X 125 mil thick blank heated to forming temperature. Data provided by Chevron Phillips Chemical Company, LP.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-Marlex-HHM-4903-High-Density-Ethylene-Hexene-Copolymer.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-Marlex-HHM-4903-High-Density-Ethylene-Hexene-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	500 hour	500 hour	Condition A, F <sub>50</sub> (100% Igepal) CO-630, ASTM D1693; Condition B, F <sub>50</sub> : 500, ASTM D1693
Melt Flow	0.30 g/10 min	0.30 g/10 min	Condition 190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	2 in per min; ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	2 in per min; ASTM D638 Type IV
Flexural Modulus	1.171 GPa	169.8 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -118 °C	<= -180 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	171 - 216 °C	340 - 421 °F	Blow Molding
	194 - 216 °C	381 - 421 °F	Extrusion

## Contact Songhan Plastic Technology Co.,Ltd.

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