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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

## Marlex® HHM 4903 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high molecular weight, ethylene-hexene copolymer is tailored for lightweight blow molded applications that require:

- Exceptional ESCR
- Excellent surface appearance
- Good melt strength
- Durability
- Recyclability

Typical extrusion applications for HHM 4903 include:

- Corrugated sheet

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)

Typical blow molded applications for HHM 4903 include:

- Fuel containers
- Stadium seats
- Garbage cans
- Large industrial containers

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	SI	Method
<b>Density</b>	---	0.949 g/cm <sup>3</sup>	ASTM D1505
<b>Flow Rate</b> (MI, 190 °C/2.16 kg)	---	0.29 g/10 min	ASTM D1238
<b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar	3,900 psi	26 MPa	ASTM D638
<b>Elongation at Break</b> , 2 in/min, Type IV bar	600 %	600 %	ASTM D638
<b>Flexural Modulus</b> , Tangent - 16:1 span:depth, 0.5 in/min	170,000 psi	1,170 MPa	ASTM D790
<b>ESCR</b> , Condition B (100 % Igepal), F <sub>50</sub>	> 1000 h	> 1000 h	ASTM D1693
<b>Brittleness Temperature</b> , Type A, Type I specimen	< -103 °F	< -75 °C	ASTM D746

1. The nominal properties reported herein are typical of the product, but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

Revision Date: August, 2016

Another quality product from



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