

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

# Marlex<sup>®</sup> HHM 4903 Polyethylene

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

- Excellent ESCR
- Excellent surface appearance •
- Good melt strength •
- Durability

## Typical blow molded applications for HHM 4903 include:

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

## 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)

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	SI	Method
Density		0.949 g/cm <sup>3</sup>	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)		0.29 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	3,900 psi	26 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	600 %	600 %	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	170,000 psi	1,170 MPa	ASTM D790
ESCR, Condition B (100 % Igepal), F50	> 500 h	> 500 h	ASTM D1693
Brittleness Temperature, 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.



