

Marlex® EHM 6004 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high molecular weight, ethylene homopolymer is tailored for lightweight blow molded containers that require:

- Excellent stiffness
- Exceptional processability
- Durability

This resin meets these specifications:

- ASTM D4976 – PE 245
- FDA 21 CFR 177.1520(c) 2.2, use conditions B through H per Table 2 of 21 CFR 176.170(c)

Typical blow molded applications for EHM 6004 include:

- Dairy bottles
- Liquid food packaging
- Caulking tubes

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.963 g/cm ³	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	0.37 g/10 min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	4,500 psi	31 MPa	ASTM D638
Elongation at Break , 2 in/min, Type IV bar	500 %	500 %	ASTM D638
Flexural Modulus , Tangent - 16:1 span:depth, 0.5 in/min	240,000 psi	1,650 MPa	ASTM D790
ESCR , Condition B (100 % Igepal), F50	15 h	15 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 variances and therefore should not be used for specifications 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.

