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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® 9512H Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

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

- Excellent stiffness to ESCR ratio
- Good impact resistance
- Durability

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 9512H include:

- Oil bottles
- Household and industrial chemical containers
- Personal care product containers

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.954 g/cm ³	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	0.35 g/10 min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	4,100 psi	28 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	185,000 psi	1,270 MPa	ASTM D790
ESCR , Condition B (100 % Igepal), F ₅₀	60 h	60 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.

