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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

# Marlex® 9514H Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

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

- Excellent balance of stiffness and ESCR
- Good melt strength
- Durability

**Typical blow molded applications for 9514H include:**

- Household and industrial chemical containers
- Large parts

**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
<b>Density</b>	---	0.957 g/cm <sup>3</sup>	ASTM D1505
<b>Flow Rate</b> (MI, 190 °C/2.16 kg)	---	0.30 g/10 min	ASTM D1238
<b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar	4,400 psi	30 MPa	ASTM D638
<b>Elongation at Break</b> , 2 in/min, Type IV bar	800 %	800 %	ASTM D638
<b>Flexural Modulus</b> , Tangent - 16:1 span:depth, 0.5 in/min	205,000 psi	1,410 MPa	ASTM D790
<b>ESCR</b> , Condition B (100 % Igepal), F50	50 h	50 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: September, 2020

Another quality product from



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