

Marlex® 9515H Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

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

- Excellent stiffness to ESCR ratio
- Good melt strength
- Durability

Typical blow molded applications for 9515H include:

- Household and industrial chemical containers
- Industrial containers/large parts

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.1a, foods of > pH5, types I, IV-B, VI-B, VII-B and VIII per Table 1 of 21 CFR 176.170(c) and use conditions E through G per Table 2 of 21 CFR 176.170(c)

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.957 g/cm ³	ASTM D1505
Flow Rate (MI, 190 °C/2.16 kg)	---	0.34 g/10 min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	4,400 psi	30 MPa	ASTM D638
Elongation at Break , 2 in/min, Type IV bar	800 %	800 %	ASTM D638
Flexural Modulus , Tangent - 16:1 span:depth, 0.5 in/min	205,000 psi	1,410 MPa	ASTM D790
ESCR , Condition B (100 % Igepal), F50	50 h	50 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.

