

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

FDA 21 CFR 177.1520(c) 3.2a, use conditions B through

Marlex[®] 9503HF Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This resin meets these specifications:

H per Table 2 of 21 CFR 176.170(c)

ASTM D4976 - PE 235

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

- Outstanding ESCR
- Excellent impact resistance
- Durability

Typical blow molded applications for 9503HF include:

- Detergent bottles
- Industrial containers and large parts
- · Household and industrial chemical containers

NOMINAL PHYSICAL PROPERTIES⁽¹⁾ English SI Method Density 0.946 g/cm3 **ASTM D1505** ---Flow Rate (MI, 190 °C/2.16 kg) 0.31 g/10 min ASTM D1238 ---Tensile Strength at Yield, 2 in/min, Type IV bar 3,600 psi 24 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 150,000 psi 1.030 MPa ASTM D790 ESCR, Condition B (100 % Igepal), F50 > 800 h > 800 h **ASTM D1693** < -75 °C Brittleness Temperature, Type A, Type I specimen < -103 °F 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.





