

For more information and technical assistance contact:

Chevron Phillips Chemical Company LP
P.O. Box 4910
The Woodlands, TX 77387-4910
800.231.1212



PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® 9503H Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

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

- Outstanding ESCR
- Excellent impact resistance
- Durability

Typical blow molded applications for 9503H include:

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

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	---	0.946 g/cm ³	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
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.

Revision Date: September, 2020

Another quality product from



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