

Marlex® 9505HF

HIGH DENSITY POLYETHYLENE

This gas phase, high molecular weight, hexane copolymer with synthetic antistatic agent is tailored for lightweight blow molded applications that:

- Require outstanding ESCR
- Require excellent impact resistance
- Are durable and recyclable for sustainability

Typical blow molded applications for 9505HF include:

- Detergent bottles
- Household & industrial chemical containers
- Industrial 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 21 CFR 176.170(c)

Nominal Resin Properties ⁽¹⁾	English	SI	Method
Density	---	0.949 g/cm ³	ASTM D1505
Melt Index , Condition 190/2.16	---	0.34 g/10min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	3,800 psi	26 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	155,000 psi	1,070 MPa	ASTM D790
ESCR , Condition B (100% Igepal), F ₅₀	250 h	250 h	ASTM D1693
Brittleness Temperature , Type A clamp, 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.

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