

Marlex® 9518H

HIGH DENSITY POLYETHYLENE

This gas phase, high molecular weight, homopolymer is tailored for lightweight blow molded applications that:

- Require excellent stiffness to ESCR ratio
- Require good melt strength
- Are durable and recyclable for sustainability

This resin meets these specifications:

- ASTM D4976 – PE 245
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)

Typical blow molded applications for 9518H include:

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

Nominal Resin Properties ⁽¹⁾	English	SI	Method
Density	--	0.962 g/cm ³	ASTM D1505
Melt Index , Condition 190/2.16	--	0.34 g/10 min	ASTM D1238
Tensile Strength at Yield , 2 in/min, Type IV bar	4,600 psi	32 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	215,000 psi	1,480 MPa	ASTM D790
ESCR , Condition B (100% Igepal), F ₅₀	24 h	24 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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