



# OXYDE CHEMICALS, INC.

**OXYLENE HDPE HD-003100 9503H**

## High Density Polyethylene

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

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

Typical blow molded applications 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, V1-B, V11-B and VIII, use conditions E through G per 21 CFR 176.170(c)

### Nominal Physical Properties:

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	SI	Method
Density	---	0.946 g/cm <sup>3</sup>	ASTM D1505
Melt Index, 190/2.16	---	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	150,000 psi	1,030 MPa	ASTM D790
ESCR, Condition B (100% Igepal), F50	>800 h	>800	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.

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