



**PREMIER**  
POLYMERS, LLC.

## Premier HD12H49

### High Density Polyethylene

**HLMI: 12**

**DENSITY: 0.949**

**Premier HD12H49** is a high molecular weight, high density polyethylene copolymer. Suitable for blow molding applications requiring high ESCR, impact strength, and rigidity. Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

<u>Resin Property</u>	<u>Typical Value</u>	<u>Units</u>	<u>Test Method</u>
<b>Melt Index,</b> <b>2.16 Kg at 190 °C</b>	<b>&lt; 0.1</b>	<b>g/10 min</b>	<b>ASTM D-1238</b>
<b>21.6 Kg at 190 °C (HL)</b>	<b>12</b>	<b>g/10 min</b>	<b>ASTM D-1238</b>
<b>Density</b>	<b>0.949</b>	<b>g/cm<sup>3</sup></b>	<b>ASTM D-4883</b>
<b>Tensile Strength at Yield</b>	<b>3700</b>	<b>Psi</b>	<b>ASTM D-638</b>
<b>Elongation at Break</b>	<b>&gt; 600</b>	<b>%</b>	<b>ASTM D-638</b>
<b>Flexural Modulus</b>	<b>180,000</b>	<b>Psi</b>	<b>ASTM D-790</b>
<b>ESCR,</b> <b>Condition A, 100% Igepal</b>	<b>&gt; 600</b>	<b>Hrs</b>	<b>ASTM D-1693</b>
<b>Condition B, 10% Igepal</b>	<b>&gt; 600</b>	<b>Hrs</b>	<b>ASTM D-1693</b>

Premier Polymers cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties but they should not be used to establish specification limits or used alone as the basis of design.

Premier Polymers, LLC. 16800 Imperial Valley Drive, Suite 200 Houston, TX 77060  
Phone: 281-902-0900 Fax: 281-260-8096