

# ExxonMobil™ HD 6307

## High Density Polyethylene

### Product Description

ExxonMobil™ HD 6307 is a medium molecular weight distribution high density polyethylene homopolymer. It possesses excellent processing uniformity and produces bottles with excellent appearance and rigidity. ExxonMobil™ HD 6307 offers the maximum in barrier properties available in high density polyethylene, and imparts minimum odor and taste to the packaged product.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Europe</li> </ul>	<ul style="list-style-type: none"> <li>Latin America</li> <li>North America</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> </ul>	<ul style="list-style-type: none"> <li>Antistatic: No</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Food Packaging</li> </ul>	<ul style="list-style-type: none"> <li>Liquid Food Containers for Milk, Thermoformed Parts</li> <li>Water and Juices</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>	
Revision Date	<ul style="list-style-type: none"> <li>08/21/2020</li> </ul>	

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.963 g/cm <sup>3</sup>	0.963 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	0.73 g/10 min	0.73 g/10 min	ASTM D1238

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	264 °F	129 °C	ASTM D1525
Peak Melting Temperature	273 °F	134 °C	ExxonMobil Method
Crystallization Peak, T <sub>c</sub>	246 °F	119 °C	ExxonMobil Method

### Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4700 psi	32 MPa	ASTM D638
Tensile Strength at Break			ASTM D638
2.0 in/min (50 mm/min)	2200 psi	15 MPa	
Elongation at Yield	8 %	8 %	ASTM D638
Flexural Modulus			
1% Secant : 0.051 in/min (1.3 mm/min)	190000 psi	1300 MPa	ASTM D790A
2% Secant	160000 psi	1100 MPa	ASTM D790
Environmental Stress-Crack Resistance			ASTM D1693B
100% Igepal	8 hr	8 hr	
Durometer Hardness (Shore D, 15 sec)	64	64	ASTM D2240

### Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	3.3 ft-lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	
73°F (23°C)	4.8 ft-lb/in <sup>2</sup>	10 kJ/m <sup>2</sup>	

### Additional Information

ExxonMobil™ HD 6307 is NSF® -51 Certified and UL recognized.

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

### Processing Statement

All molded properties were measured on compression molded plaques.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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