

# ExxonMobil™ HD 6307

(Legacy name: Paxon™ AD60-007)

## 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 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.

## ExxonMobil™ HD 6307 High Density Polyethylene

### 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.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2024 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

[exxonmobilchemical.com](http://exxonmobilchemical.com)