

ExxonMobil™ HD 5702

(Legacy name: Paxon™ AA60-003)

High Density Polyethylene

Product Description

ExxonMobil™ HD 5702 is a medium molecular weight distribution high density polyethylene which is characterized by high stiffness, excellent melt uniformity, and chemical inertness.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes Antistatic: No
Applications	<ul style="list-style-type: none"> Food Packaging Liquid Food Containers for Milk, Water and Juices Thermoformed Parts Thin Gauge Sheet
Form(s)	<ul style="list-style-type: none"> Pellets
Revision Date	<ul style="list-style-type: none"> 09/26/2022

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.957 g/cm ³	0.957 g/cm ³	ASTM D4883
Melt Index (190°C/2.16 kg)	0.25 g/10 min	0.25 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	174 °F	79 °C	ASTM D648
Vicat Softening Temperature	264 °F	129 °C	ASTM D1525
Peak Melting Temperature	274 °F	135 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4600 psi	32 MPa	ASTM D638
Elongation at Break	540 %	540 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	230000 psi	1600 MPa	
Tangent	200000 psi	1400 MPa	
Environmental Stress-Crack Resistance			ASTM D1693
100% Igepal	20 hr	20 hr	
Durometer Hardness (15 sec)	60	60	ASTM D2240

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179
-4°F (-20°C)	8.2 ft·lb/in ²	17 kJ/m ²	
73°F (23°C)	8.2 ft·lb/in ²	17 kJ/m ²	

Additional Information

ExxonMobil™ HD 5702 is NSF® -51 Certified and UL recognized

Legal Statement

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

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

Processing Statement

All molded properties were measured on compression molded plaques.

Notes

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

¹ 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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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