Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ HD 5702

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]	▪ Latin America	▪ North America
Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No
Applications	▪ Food Packaging ▪ Liquid Food Containers for Milk, Water and Juices	▪ Thermoformed Parts ▪ Thin Gauge Sheet
Form(s)	▪ Pellets	
Revision Date	▪ 09/26/2022	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.957	g/cm³	0.957	g/cm³	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/in²	17	kJ/m²	
73°F (23°C)	8.2	ft·lb/in²	17	kJ/m²	

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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: Contact Us

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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene