Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ HD 5703

High Density Polyethylene

Product Description

HD 5703 is a blow molding grade high density polyethylene copolymer with a bimodal molecular weight distribution. It provides a very good balance of stress crack resistance, stiffness and impact strength with excellent processability due to its next generation branched structure.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No	▪ UV Stabilizer: No
Applications	▪ Blow Molding ▪ Drainage Pipes	▪ Personal Care ▪ Sheet Extrusion	
Form(s)	▪ Pellets		
Revision Date	▪ 05/01/2010		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.957	g/cm³	0.957	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.30	g/10 min	0.30	g/10 min	ASTM D1238

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Brittleness Temperature	< -76	°F	< -60	°C	ASTM D746
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525

Molded Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield	4000	psi	28	MPa	ASTM D638
Tensile Strength at Break	2000	psi	14	MPa	ASTM D638
Flexural Modulus	180000	psi	1200	MPa	ASTM D790
Environmental Stress-Crack Resistance					ASTM D1693B
100% Igepal	370	hr	370	hr	

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Impact Strength (73°F (23°C))	130	ft·lb/in²	260	kJ/m²	ASTM D1822

Legal Statement

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

Processing Statement

1. Values are typical and should not be interpreted as specifications. Values may change with future development. 2. All molded properties were measured on compression molded plaques. 3. Bulk Density: 585 Kg/m3 (36.5 lbs/ft3) 4. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation. 5. ESCR tested using Condition B, 100 % Igepal.

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