

# ExxonMobil™ HD 5703

(Legacy name: ExxonMobil™ HDPE HD 9830.02)

## 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 <sup>1</sup>	<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> <li>Antistatic: No</li> <li>UV Stabilizer: No</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Blow Molding</li> <li>Personal Care</li> <li>Drainage Pipes</li> <li>Sheet Extrusion</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>05/01/2010</li> </ul>

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.957 g/cm <sup>3</sup>	0.957 g/cm <sup>3</sup>	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 100% Igepal	370 hr	370 hr	ASTM D1693B

### Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength (73°F (23°C))	130 ft-lb/in <sup>2</sup>	260 kJ/m <sup>2</sup>	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/m<sup>3</sup> (36.5 lbs/ft<sup>3</sup>) 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.

<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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For additional technical, sales and order assistance: [Contact Us](#)

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