

# ExxonMobil™ HD 4070 Series

(Legacy name: ExxonMobil™ HDPE HD 8570 Series)

## High Density Polyethylene

### Product Description

ExxonMobil™ HD 4070 is a high density hexene copolymer designed to offer excellent stiffness and processability. This resin is ideally suited for applications that require the optimum balance of stiffness, ductility, processability and surface appearance.

### 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>HD 4070.UV: Long Term UV-20 Stabilizer: Yes</li> <li>HD 4070p.UV: Long Term UV-20 Stabilizer: Yes</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Consumer Articles</li> <li>Playground Equipment</li> <li>Toys</li> <li>Water Sports Articles</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>HD 4070.UV: Pellets</li> <li>HD 4070p.UV: Powder</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>04/30/2020</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.940 g/cm <sup>3</sup>	0.940 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	7.0 g/10 min	7.0 g/10 min	ASTM D1238
Peak Melting Temperature	259 °F	126 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	136 °F	58 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	100 °F	38 °C	ASTM D648

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield			ASTM D638
2.0 in/min (50 mm/min)	2900 psi	20 MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	10 %	10 %	ASTM D638
Flexural Modulus - 1% Secant	110000 psi	750 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	6 hr	6 hr	
100% Igepal, F50	30 hr	30 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	54 ft·lb	73 J	
-40°F (-40°C), 0.250 in (6.35 mm)	175 ft·lb	237 J	

### 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 physical properties were measured on 3 mm rotomolded samples unless a different value is shown. ESCR was measured on compression molded plaques.

Tensile Strength at Yield and Elongation at Yield tested using ASTM D638 Type IV, 2 in/min. Flexural Modulus was measured at 0.5 in/min.

### 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: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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