

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 ¹	 Latin America 	•	North America		
Additive	 HD 4070.UV: Long T Stabilizer: Yes 	erm UV-20•	HD 4070p.UV: Long Term UV-20 Stabilizer: Yes		
- FF	Consumer ArticlesPlayground Equipme		Toys Water Sports Articles		
Form(s)	HD 4070.UV: Pellets		HD 4070p.UV: Powder		
Revision Date	• 04/30/2020				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.940	g/cm³	0.940	g/cm³	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	
mpact	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.

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.

Effective Date: 04/30/2020 ExxonMobil Page: 1 of 2

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

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