ExxonMobil Signature Polymers

ExxonMobil™ HD X7000 Series

(Legacy name: Paxon™ 7000 Series)

High Density Polyethylene

Product Description

ExxonMobil™ HD X7000 Series of crosslinkable mHDPE resins are designed to offer outstanding ESCR, toughness, thermal, impact and notch failure resistance. These resins are ideally suited for applications that require excellent part fill during processing and outstanding finished part performance. HD X7000 Series series grades are all supplied with long term UV stabilization.

Key Features

AddPacks:

ExxonMobil™ HD X7003.NT (Natural) - Pellet

ExxonMobil™ HD X7003p.NT (Natural) - 20 and 35 US Mesh Powders

ExxonMobil™ HD X7203.BL (Black) - Pellet

ExxonMobil™ HD X7203p.BL (Black) - 20 and 35 US Mesh Powders

General

Availability [1]	▪ Latin America	▪ North America	
Applications	▪ Agricultural Products ▪ Automotive Components	▪ Chemical Storage Tanks ▪ Large Refuse Containers	▪ Marine Fuel Tanks ▪ Recreational Vehicle - Fuel Tanks
Revision Date	▪ 01/13/2016		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Crosslink Potential	2.5		2.5		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)	2700	psi	19	MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	10	%	10	%	ASTM D638
Elongation at Break	390	%	390	%	ExxonMobil Method
Flexural Modulus - 1% Secant	110000	psi	760	MPa	ASTM D790B
Environmental Stress-Crack Resistance					ASTM D1693
10% Igepal, F0	> 1000	hr	> 1000	hr	
100% Igepal, F0	> 1000	hr	> 1000	hr	

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Impact Strength					ARM
-40°F (-40°C), 0.125 in (3.18 mm)	64	ft·lb	87	J	
-40°F (-40°C), 0.250 in (6.35 mm)	170	ft·lb	230	J	

Additional Information

- All physical properties were measured on 3 mm rotomolded samples unless a different value is shown, except for ESCR, which was measured on compression molded samples.
- Test procedures may be modified to accommodate operating conditions or facility limitations.

Legal Statement

This product is not intended for use in food contact application.

This product is not intended for use in medical applications and should not be used in any such applications.

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.

For additional technical, sales and order assistance: Contact Us

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