

ExxonMobil™ HD X7000 Series

High Density Polyethylene

Product Description		Key Features	
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.		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	<ul style="list-style-type: none"> Latin America 	<ul style="list-style-type: none"> North America 	
Applications	<ul style="list-style-type: none"> Agricultural Products Automotive Components 	<ul style="list-style-type: none"> Chemical Storage Tanks Large Refuse Containers 	<ul style="list-style-type: none"> Marine Fuel Tanks Recreational Vehicle - Fuel Tanks
Revision Date	<ul style="list-style-type: none"> 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 2.0 in/min (50 mm/min)	2700 psi	19 MPa	ASTM D638
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			
<ul style="list-style-type: none"> 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.			

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