

ExxonMobil™ HD X7000 Series

(Legacy name: Paxon™ 7000 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 | ▪ 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 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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For additional technical, sales and order assistance: [Contact Us](#)

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