

Paxon™ 7000 Series

High Density Polyethylene Resin

Product Description	Key Features
Paxon™ 7000 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. Paxon™ 7000 series grades are all supplied with long term UV stabilization.	AddPacks: Paxon™ 7003 (Natural) - Pellet Paxon™ 7004 (Natural) - 20 and 35 US Mesh Powders Paxon™ 7203 (Black) - Pellet Paxon™ 7204 (Black) - 20 and 35 US Mesh Powders Paxon™ 7003 (Beige, Brown, Dark Green, Gray, Red, White, Yellow) - Pellet Paxon™ 7004 (Beige, Brown, Dark Green, Gray, Red, White, Yellow) - 35 US Mesh Powder

General			
Availability ¹	• Latin America	• North America	• South America
Applications	• Agricultural Products • Automotive Components	• Chemical Storage Tanks • Large Refuse Containers	• Marine Fuel Tanks • Recreational Vehicle - Fuel Tanks
Revision Date	• March 2010		

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	--	142 °F	61 °C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	--	99 °F	37 °C	ASTM D648

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3000 psi	20 MPa	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
Flexural Modulus - 1% Secant	87000 psi	600 MPa	ASTM D790B
Environmental Stress-Crack Resistance			ASTM D1693A
10% Igepal, F50	> 1000 hr	> 1000 hr	
100% Igepal, F50	> 1000 hr	> 1000 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (-40°F (-40°C))	4.3 ft-lb/in	230 J/m	ASTM D256
Impact Strength			ARM
-40°F (-40°C), 0.125 in (3.18 mm)	74 ft-lb	101 J	
-40°F (-40°C), 0.250 in (6.35 mm)	184 ft-lb	250 J	

Typical properties: these are not to be construed as specifications.

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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

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:

Worldwide and the Americas
ExxonMobil Chemical Company
13501 Katy Freeway
Houston, TX 77079-1398
USA
1-281-870-6050

Asia Pacific
ExxonMobil Chemical Singapore Pte. Ltd.
1 HarbourFront Place
#06-00 HarbourFront Tower One
Singapore 098633
86 21 240-75380

Europe, Middle East and Africa
ExxonMobil Chemical Europe
Hermeslaan 2
1831 Machelen, Belgium
420-239-016-274

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