ExxonMobil

Paxon™ 7000 XL Series

High Density Polyethylene Resin

Product Description

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.

Key Features

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

General

Applications

- Agricultural Products
- Automotive Components
- Chemical Storage Tanks
- Large Refuse Containers
- Marine Fuel Tanks
- Recreational Vehicle - Fuel Tanks

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					ASTM D638
2.0 in/min (50 mm/min)	2800	psi	19	MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	20	%	20	%	ASTM D638
Elongation at Break	710	%	710	%	ExxonMobil Method
Flexural Modulus - 1% Secant	87000	psi	600	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)	75	ft·lb	102	J	
-40°F (-40°C), 0.250 in (6.35 mm)	190	ft·lb	258	J	