ExxonMobil

Paxon™ 7000 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	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	

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