

ExxonMobil™ HD 5003.AS

(Legacy name: Paxon™AF50-003) High Density Polyethylene

Product Description

ExxonMobil $^{\text{TM}}$ HD 5003.AS is a blow molding grade high density polyethylene copolymer containing an antistatic additive. It offers very good balance of stress crack resistance, stiffness and impact strength.

General					
Availability ¹	 Latin America 		 North America 		
Additive	 Thermal Stabilizer: Y 	es	Antistatic: Yes		
	Food PackagingHousehold and Industrial chemical containers		 Pharmaceutical Packaging Thermoformed Parts 		
Form(s)	 Pellets 				
Revision Date	• 09/26/2022				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.950	g/cm³	0.950	g/cm³	ASTM D4883
Melt Index (190°C/2.16 kg)	0.33	g/10 min	0.33	g/10 min	ASTM D1238
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	161	°F	72	°C	ASTM D648
Vicat Softening Temperature	255	°F	124	°C	ASTM D1525
Peak Melting Temperature	266	°F	130	°C	ExxonMobil Method
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	3700	psi	26	MPa	ASTM D638
Elongation at Break	730	%	730	%	ASTM D638
Flexural Modulus					ASTM D790
1% Secant	140000	psi	930	MPa	
Tangent	150000	psi	1000	MPa	
Environmental Stress-Crack Resistance					ASTM D1693
100% Igepal	60	hr	60	hr	
Durometer Hardness (15 sec)	60		60		ASTM D2240
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Charpy Notched Impact Strength					
-4°F (-20°C)	2.0	ft·lb/in²	4.2	kJ/m²	ISO 179
73°F (23°C)	4.1	ft·lb/in²	8.5	kJ/m²	ISO 179/1eA

Additional Information

ExxonMobil™ HD 5003.AS is NSF® -51 Certified.

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

All molded properties were measured on compression molded plaques.

Notes

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

Effective Date: 09/26/2022 ExxonMobil Page: 1 of 2

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: www.exxonmobilchemical.com/ContactUs

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