

ExxonMobil™ HD 5403.AS

(Legacy name: Paxon™AS55-003) High Density Polyethylene

Product Description

ExxonMobil $^{\text{TM}}$ HD 5403.AS is a blow molding grade high density polyethylene copolymer containing an antistat additive. It provides a good balance of stiffness and stress crack resistance.

General					
Availability ¹	 Africa & Middle East 		 Latin America 		
•	 Europe 		 North America 		
Additive	Thermal Stabilizer: Y	es	Antistatic: Yes		
Applications	 Drainage Pipes 		 Household and Industrial 	Therm	noformed Parts
	 Food Packaging 		chemical containersPharmaceutical Packaging	Thin Gauge Sheet	
Form(s)	 Pellets 				
Revision Date	• 08/21/2020				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.954	g/cm³	0.954	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.30	g/10 min	0.30	g/10 min	ASTM D1238
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Deflection Temperature Under Load (DTUI at 66psi - Unannealed	_) 160	°F	71	°C	ASTM D648
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Peak Melting Temperature	268	°F	131	°C	ExxonMobil Method
Crystallization Peak, Tc	244	°F	118	°C	ExxonMobil Method
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	4100	psi	28	MPa	ASTM D638
Flexural Modulus					
1% Secant : 0.051 in/min (1.3 mm/min)	150000	psi	1000		ASTM D790A
2% Secant	120000	psi	850	MPa	ASTM D790
Environmental Stress-Crack Resistance					ASTM D1693B
100% Igepal	30	hr		hr	
Durometer Hardness (Shore D, 15 sec)	62		62		ASTM D2240
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	4.3	ft·lb/in²	9.0	kJ/m²	

Additional Information

All molded properties were measured on compression molded plaques. ExxonMobil $^{\text{TM}}$ HD 5403.AS is NSF $^{\text{\tiny{10}}}$ -51 Certified and UL recognized. Contact your ExxonMobil Chemical representative for details.

Legal Statement

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

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

Notes

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

Effective Date: 08/21/2020 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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