Ex_xonMobil

Paxon[™] AB50-003 High Density Polyethylene Resin

Product Description

Paxon[™] AB50-003 is a high density blow molding copolymer grade. This resin has very good stress crack resistance combined with high impact strength and rigidity.

General					
Availability ¹	 Latin America 		 North America 		
Additive	Thermal Stabilizer: Y	es	Antistatic: No		
Applications	Food PackagingHousehold and Indu chemical containers	strial	Pharmaceutical PackagingThermoformed Parts		
Form(s)	 Pellets 				
Revision Date	• 08/21/2020				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.950	g/cm³	0.950	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.25	g/10 min	0.25	g/10 min	ASTM D1238
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Deflection Temperature Under Load (DTUI at 66psi - Unannealed	_) 156	°F	69	°C	ASTM D648
Vicat Softening Temperature	257	°F	125	°C	ASTM D1525
Peak Melting Temperature	268	°F	131	°C	ExxonMobil Method
Crystallization Peak, Tc	243	°F	117	°C	ExxonMobil Method
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	3700	psi	26	MPa	ASTM D638
Flexural Modulus					
1% Secant : 0.051 in/min (1.3 mm/min)	130000	psi	920	MPa	ASTM D790A
2% Secant	110000	psi	770	MPa	ASTM D790
Environmental Stress-Crack Resistance					ASTM D1693B
100% Igepal	50	hr	50	hr	
Durometer Hardness (Shore D, 15 sec)	61		61		ASTM D2240
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	1.9	ft·lb/in²	4.0	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. AB50-003 is NSF® -51 Certified. Contact your ExxonMobil Chemical representative for details.

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.

Notes

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

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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