

Paxon™ AA48-002

High Density Polyethylene Resin

Product Description

Paxon™ AA48-002 is a blow molding grade high density polyethylene copolymer containing an antistatic additive. It provides a very good balance of stress crack resistance, stiffness and impact strength.

General

Availability ¹	- Latin America - North America
Additive	- Thermal Stabilizer: Yes - Antistatic: Yes
Applications	- Agriculture Products Containers - Food Packaging - Household and Industrial chemical containers - Pharmaceutical Packaging - Thin Gauge Sheet
Form(s)	Pellets
Revision Date	08/21/2020

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.948 g/cm ³	0.948 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.21 g/10 min	0.21 g/10 min	ASTM D1238

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	145 °F	63 °C	ASTM D648
Vicat Softening Temperature	255 °F	124 °C	ASTM D1525
Peak Melting Temperature	266 °F	130 °C	ExxonMobil Method
Crystallization Peak, T _c	243 °F	117 °C	ExxonMobil Method

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3600 psi	25 MPa	ASTM D638
Flexural Modulus			
1% Secant : 0.051 in/min (1.3 mm/min)	120000 psi	850 MPa	ASTM D790A
2% Secant	100000 psi	720 MPa	ASTM D790
Environmental Stress-Crack Resistance			ASTM D1693B
100% Igepal	130 hr	130 hr	
Durometer Hardness (Shore D, 15 sec)	60	60	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/in ²	4.0 kJ/m ²	
73°F (23°C)	4.3 ft-lb/in ²	9.0 kJ/m ²	

Additional Information

All molded properties were measured on compression molded plaques.

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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