

Paxon™ BA50-100

High Density Polyethylene Resin

Product Description

BA50-100 is a high molecular weight, high density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Europe 	<ul style="list-style-type: none"> Latin America North America 	
Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes 	<ul style="list-style-type: none"> Antistatic: No 	
Applications	<ul style="list-style-type: none"> Agriculture Products Containers Automotive Fittings Automotive Fuel Tanks - Excluding biodiesel Drums 	<ul style="list-style-type: none"> Food Packaging Heavy Gauge Sheet Large Part Blow Molding Pallets 	<ul style="list-style-type: none"> Portable Fuel Tanks Small Engine Fuel Tanks Thermoformed Parts
Revision Date	<ul style="list-style-type: none"> 05/21/2015 		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.949 g/cm ³	0.949 g/cm ³	ASTM D4883
Melt Index (190°C/2.16 kg)	< 0.10 g/10 min	< 0.10 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	10 g/10 min	10 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -105 °F	< -76 °C	ASTM D746
Vicat Softening Temperature	248 °F	120 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3800 psi	26 MPa	ASTM D638
Flexural Modulus	180000 psi	1200 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	> 800 hr	> 800 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength (73°F (23°C))	120 ft-lb/in ²	250 kJ/m ²	ASTM D1822

Additional Information

BA50-100 is NSF® -51 Certified and UL recognized.

Legal Statement

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

This product is not intended for use in fuel systems utilizing biodiesel including drum, portable fuel tank and small engine fuel tank applications.

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

Processing Statement

1. Values may change with future development. 2. All molded properties were measured on compression molded plaques. 3. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation. 4. ESCR tested using Condition B, 100% Igepal.

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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