

Paxon™ BA50-120

High Density Polyethylene (MMW) Resin

Product Description

BA50-120 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	▪ Latin America	▪ North America	
Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No	
Applications	<ul style="list-style-type: none"> ▪ Agricultural Products ▪ 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	▪ 05/21/2015		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.951 g/cm ³	0.951 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)	11 g/10 min	11 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	259 °F	126 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3700 psi	25 MPa	ASTM D638
Flexural Modulus	170000 psi	1100 MPa	ASTM D790
Environmental Stress-Crack Resistance			ASTM D1693
100% Igepal	> 800 hr	> 800 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength (73°F (23°C))	100 ft-lb/in ²	210 kJ/m ²	ASTM D1822

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.

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

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" x 3" x 0.125"), 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.

