

Paxon™ BA46-055

High Density Polyethylene Resin

Product Description

BA46-055 is a high molecular weight high density polyethylene copolymer. It possesses a combination of excellent processability, outstanding melt strength, high impact strength, chemical resistance and high stress cracking resistance. It is often used in coex applications.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes Antistatic: No
Applications	<ul style="list-style-type: none"> Automotive Fuel Tanks - Excluding biodiesel Compression Moldings Drums Food Packaging Heavy Gauge Sheet Intermediate Bulk Containers Large Part Blow Molding 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	0.946 g/cm ³	0.946 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)	5.5 g/10 min	5.5 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	261 °F	127 °C	ASTM D1525

Molded Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3500 psi	24 MPa	ASTM D638
Flexural Modulus	150000 psi	1000 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	> 1000 hr	> 1000 hr	ASTM D1693

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength (73°F (23°C))	200 ft-lb/in ²	420 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 fuel systems utilizing biodiesel including drum, portable fuel tank and small engine fuel tank applications.

This product is not intended for use in medical applications and should not be used in any such 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"x3"x0.125"), tangent calculation. 4. ESCR tested using Condition B, 100% Igepal. 5. BA46-055 has NSF and UL recognition. Contact your ExxonMobil Chemical representative for details.

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.

