

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

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

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

