

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

Additive	<ul style="list-style-type: none"> Thermal Stabilizer: Yes Antistatic: No
Applications	<ul style="list-style-type: none"> Agriculture Products Containers Automotive Fittings Automotive Fuel Tanks - Excluding biodiesel Drums Food Packaging Heavy Gauge Sheet Large Part Blow Molding Pallets Portable Fuel Tanks Small Engine Fuel Tanks Thermoformed Parts

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

