

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

Additive	Thermal Stabilizer: Yes	Antistatic: No	
Applications	▪ Agricultural Products ▪ 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	0.951 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 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))	100 ft-lb/in ²	210 kJ/m ²	ASTM D1822

