

Paxon™ AA45-004

High Density Polyethylene Resin

Product Description

AA45-004 is a blow molding high density polyethylene copolymer offering exceptional stress cracking resistance and impact performance.

General

Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No
Applications	▪ Agriculture Products Containers ▪ Food Packaging	▪ Household and Industrial chemical containers ▪ Pharmaceutical Packaging

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.945 g/cm ³	0.945 g/cm ³	ASTM D4883
Melt Index (190°C/2.16 kg)	0.35 g/10 min	0.35 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	250 °F	121 °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	110 ft-lb/in ²	230 kJ/m ²	ASTM D1822

