

Paxon™ AL55-003

High Density Polyethylene Resin

Product Description

AL55-003 is a blow molding grade high density polyethylene offering a good combination of stiffness and stress crack resistance.

General

Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No	
Applications	▪ Drainage Pipes ▪ Food Packaging	▪ Household and Industrial chemical containers ▪ Pharmaceutical Packaging	▪ Thermoformed Parts ▪ Thin Gauge Sheet

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.954 g/cm ³	0.954 g/cm ³	ASTM D4883
Melt Index (190°C/2.16 kg)	0.30 g/10 min	0.30 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	4100 psi	28 MPa	ASTM D638
Flexural Modulus	190000 psi	1300 MPa	ASTM D790
Environmental Stress-Crack Resistance 100% Igepal	30 hr	30 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength	90 ft-lb/in ²	190 kJ/m ²	ASTM D1822

