

Paxon™ HYA021L

High Density Polyethylene Resin

Product Description

HYA021L 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	▪ Drums ▪ Food Packaging ▪ Heavy Gauge Sheet	▪ Highway Drainage Pipe ▪ Large Part Blow Molding ▪ Shot Gun Shells	▪ Thermoformed Parts
Form(s)	▪ Pellets		

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)	< 0.10 g/10 min	< 0.10 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -121 °F	< -85 °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	4100 psi	28 MPa	ASTM D638
Flexural Modulus	200000 psi	1400 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))	190 ft-lb/in ²	400 kJ/m ²	ASTM D1822

