

ExxonMobil HDPE HYA021L High Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Product Description: HYA021L is a molecular weight, high-density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity. **Availability:** Latin America, North America and South America **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 **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HYA021L-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D4883
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1963
Melt Flow	<= 0.10 g/10 min	<= 0.10 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	1400 %	1400 %	ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790
Tensile Impact Strength	399 kJ/m ²	190 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 °C	259 °F	ASTM D1525
Brittleness Temperature	<= -85.0 °C	<= -121 °F	ASTM D746

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