

ExxonMobil Paxon™ AA50-002 Blow Molding Resin (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

AA50-002 is a blow molding grade high density polyethylene. This resin has excellent stress crack resistance combined with high impact strength, rigidity, and melt strength. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Paxon-AA50-002-Blow-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D4883
ESCR 100% Igepal®	80 hour	80 hour	ASTM D1693 Condition B
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 190 °C	0.20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.9 MPa	2300 psi	ASTM D638
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	900 %	900 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Modulus	1.28 GPa	185 ksi	Method 1, Procedure A (1"x3"x0.125"), Tangent calculation; ASTM D790
Tensile Impact Strength	189 kJ/m ²	90.0 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C @Temperature 20.0 °C	66.7 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	68.0 °C	154 °F	ASTM D648
Vicat Softening Point	124 °C	255 °F	ASTM D1525
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	191 °C Metric	375 °F English	Comments
Descriptive Properties	Value		Comments
Features	Thermal Stabilizer		

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China