

ExxonMobil Paxon™ AS55-003 Blow Molding Resin (discontinued **)

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

Material Notes:

AS55-003 is a blow molding grade high density polyethylene copolymer containing an antistat additive. It provides a good balance of stiffness and stress crack resistance. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Paxon-AS55-003-Blow-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D4883
ESCR 100% Igepal®	25 hour	25 hour	ASTM D1693 Condition B
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.5 MPa	2100 psi	ASTM D638
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Break	560 %	560 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D638
Flexural Modulus	1.31 GPa	190 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	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM D648
Vicat Softening Point	127 °C	260 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	ASTM D746

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

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