

ExxonMobil Paxon™ BC50-100 Sheet Extrusion and Blow Molding Resin (discontinued **)

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

Material Notes:

BC50-100 is a high molecular weight, high density polyethylene copolymer. This resin has superior stress crack resistance, high impact strength and good rigidity. Information provided by ExxonMobil Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Paxon-BC50-100-Sheet-Extrusion-and-Blow-Molding-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D4883
ESCR 100% Igepal®	>= 800 hour	>= 800 hour	ASTM D1693 Condition B
Melt Flow	10 g/10 min	10 g/10 min	190 / 21.6 (HLMI); ASTM D1238
	<= 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Break	1000 %	1000 %	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	Method1, Procedure A (1"x3"x0.125"), Tangent calculation; ASTM D790
Tensile Impact Strength	252 kJ/m ²	120 ft-lb/in ²	ASTM D1822
	210 kJ/m ²	100 ft-lb/in ²	ASTM D1822
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM D648
Vicat Softening Point	121 °C	250 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	204 °C	400 °F	

Descriptive Properties	Value	Comments
Features	Thermal Stabilizer	

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