



EC-BXM 5008

Fiber Type: E-Glass/Carbon
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.070 in. / 1.78 mm
 Total Weight: 57.58 oz/sq.yd / 1952 g/sq.m

VECTORULTRA™
 ADVANCED COMPOSITE REINFORCEMENTS

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	177 lb / 80 kg	35 yd / 32 m	45 ° :	24.74 oz/sq.yd / 839 g/sq.m
			90 ° :	n/a
			-45 ° :	24.74 oz/sq.yd / 839 g/sq.m
			Chopped Mat :	8.10 oz/sq.yd / 275 g/sq.m

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

45 °

45 °

Laminate Weight				
	EC-BXM 5008 Resin Infused		EC-BXM 5008 Open Mold	
Fiber	0.40 lb/sq.ft	1.95 kg/sq.m	0.40 lb/sq.ft	1.95 kg/sq.m
Resin	0.20 lb/sq.ft	0.96 kg/sq.m	0.44 lb/sq.ft	2.14 kg/sq.m
Total	0.60 lb/sq.ft	2.91 kg/sq.m	0.84 lb/sq.ft	4.09 kg/sq.m

Physical Properties				
	EC-BXM 5008 Resin Infused		EC-BXM 5008 Open Mold	
Density	1.01 oz/cu.in	1.75 g/cc	0.89 oz/cu.in	1.55 g/cc
Fiber Content	67% by Wt.	52% by Vol.	48% by Wt.	33% by Vol.
Thickness	0.065 in	1.7 mm	0.104 in	2.6 mm

Laminate Moduli

	EC-BXM 5008 Resin Infused		EC-BXM 5008 Open Mold	
	Ex	5.37 MSI	37.00 GPa	3.54 MSI
Ey	5.37 MSI	37.00 GPa	3.54 MSI	24.38 GPa
Gxy	0.65 MSI	4.48 GPa	0.45 MSI	3.07 GPa
Ex,flex.	5.10 MSI	35.15 GPa	3.36 MSI	23.16 GPa
Ey,flex.	5.10 MSI	35.15 GPa	3.36 MSI	23.16 GPa

Ultimate Stress

	EC-BXM 5008 Resin Infused		EC-BXM 5008 Open Mold	
	Long. Ten.	68.6 KSI	472.9 MPa	45.2 KSI
Long. Comp.	74.1 KSI	510.7 MPa	48.8 KSI	336.5 MPa
Trans. Ten.	68.6 KSI	472.9 MPa	45.2 KSI	311.6 MPa
Trans. Comp.	74.1 KSI	510.7 MPa	48.8 KSI	336.5 MPa
In-Plane Shear	14.8 KSI	102.2 MPa	10.2 KSI	70.1 MPa
Long. Flex.	74.7 KSI	515.1 MPa	49.2 KSI	339.4 MPa
Trans. Flex.	74.7 KSI	515.1 MPa	49.2 KSI	339.4 MPa

In-Plane Stiffness, "EA"

	EC-BXM 5008 Resin Infused		EC-BXM 5008 Open Mold	
	(EA)x	350,267 lb/in	61,338 N/mm	367,617 lb/in
(EA)y	350,267 lb/in	61,338 N/mm	367,617 lb/in	64,376 N/mm
(GA)xy	42,423 lb/in	7,429 N/mm	46,356 lb/in	8,118 N/mm

Ultimate In-Plane Load

	EC-BXM 5008 Resin Infused		EC-BXM 5008 Open Mold	
	Long. Ten.	4,477 lb/in	784 N/mm	4,699 lb/in
Long. Comp.	4,834 lb/in	847 N/mm	5,074 lb/in	889 N/mm
Trans. Ten.	4,477 lb/in	784 N/mm	4,699 lb/in	823 N/mm
Trans. Comp.	4,834 lb/in	847 N/mm	5,074 lb/in	889 N/mm
In-Plane Shear	967 lb/in	169 N/mm	1,057 lb/in	185 N/mm

Notes:

- 1: Resin infused laminate made with a poly / vinyl ester resin blend.
- 2: Open mold laminate made with poly / vinyl ester resin blend.
- 3: All standard reinforcements should be infused with a flow aid or Vectorfusion® reinforcements.
- 4: All properties are given assuming a symmetric or quasisymmetric laminate schedule.



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Disclaimer:

As a service to customers, Vectorply Corporation ("VP") may provide computer-generated predictions of the physical performance of a product using a reinforcement fabric produced by VP in combination with other materials or systems.

VP makes no warranty whatsoever as to the accuracy of any such predicted physical performance, and customer acknowledges that customer is solely responsible for determining the performance and fitness for a particular use of any product produced by customer utilizing a fabric or material produced or manufactured by VP. Specifications of reinforcements may change without notice.