



KE-BX 1200

Fiber Type: Glass/Aramid
 Architecture: 45/-45 Double Bias
 Dry Thickness: 0.022 in. / 0.56 mm
 Total Weight: 12.12 oz/sq.yd / 411 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	185 lb / 84 kg	174 yd / 159 m	45 ° :	6.06 oz/sq.yd / 205 g/sq.m
			90 ° :	n/a
			-45 ° :	6.06 oz/sq.yd / 205 g/sq.m
			Chopped Mat :	n/a

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

45 °

45 °

Laminate Weight

	KE-BX 1200 Resin Infused		KE-BX 1200 Open Mold	
	Fiber	0.08 lb/sq.ft	0.41 kg/sq.m	0.08 lb/sq.ft
Resin	0.04 lb/sq.ft	0.18 kg/sq.m	0.09 lb/sq.ft	0.45 kg/sq.m
Total	0.12 lb/sq.ft	0.59 kg/sq.m	0.18 lb/sq.ft	0.86 kg/sq.m

Physical Properties

	KE-BX 1200 Resin Infused		KE-BX 1200 Open Mold	
	Density	1.01 oz/cu.in	1.75 g/cc	0.88 oz/cu.in
Fiber Content	70% by Wt.	56% by Vol.	48% by Wt.	34% by Vol.
Thickness	0.013 in	0.3 mm	0.022 in	0.6 mm

Laminate Moduli

	KE-BX 1200 Resin Infused		KE-BX 1200 Open Mold	
	Ex	4.92 MSI	33.92 GPa	3.16 MSI
Ey	4.92 MSI	33.92 GPa	3.16 MSI	21.76 GPa
Gxy	0.57 MSI	3.93 GPa	0.40 MSI	2.76 GPa
Ex,flex.	4.67 MSI	32.22 GPa	3.00 MSI	20.68 GPa
Ey,flex.	4.67 MSI	32.22 GPa	3.00 MSI	20.68 GPa

Ultimate Stress

	KE-BX 1200 Resin Infused		KE-BX 1200 Open Mold	
	Long. Ten.	77.3 KSI	533.0 MPa	49.6 KSI
Long. Comp.	58.0 KSI	399.8 MPa	37.2 KSI	256.5 MPa
Trans. Ten.	77.3 KSI	533.0 MPa	49.6 KSI	342.0 MPa
Trans. Comp.	58.0 KSI	399.8 MPa	37.2 KSI	256.5 MPa
In-Plane Shear	11.4 KSI	78.5 MPa	8.0 KSI	55.3 MPa
Long. Flex.	90.1 KSI	621.5 MPa	57.8 KSI	398.8 MPa
Trans. Flex.	90.1 KSI	621.5 MPa	57.8 KSI	398.8 MPa

In-Plane Stiffness, "EA"

	KE-BX 1200 Resin Infused		KE-BX 1200 Open Mold	
	(EA)x	65,132 lb/in	11,406 N/mm	69,667 lb/in
(EA)y	65,132 lb/in	11,406 N/mm	69,667 lb/in	12,200 N/mm
(GA)xy	7,538 lb/in	1,320 N/mm	8,848 lb/in	1,549 N/mm

Ultimate In-Plane Load

	KE-BX 1200 Resin Infused		KE-BX 1200 Open Mold	
	Long. Ten.	1,024 lb/in	179 N/mm	1,095 lb/in
Long. Comp.	768 lb/in	134 N/mm	821 lb/in	144 N/mm
Trans. Ten.	1,024 lb/in	179 N/mm	1,095 lb/in	192 N/mm
Trans. Comp.	768 lb/in	134 N/mm	821 lb/in	144 N/mm
In-Plane Shear	151 lb/in	26 N/mm	177 lb/in	31 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:

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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.