



## E-BXM 4015

Fiber Type: E-Glass  
 Architecture: 45/-45 Double Bias  
 Dry Thickness: 0.065 in. / 1.65 mm  
 Total Weight: 52.92 oz/sq.yd / 1794 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width: 50 in / 1270 mm	Roll Weight: 210 lb / 95 kg	Roll Length: 45 yd / 41 m	0 ° : n/a	
			45 ° : 19.71 oz/sq.yd / 668 g/sq.m	
			90 ° : n/a	
			-45 ° : 19.71 oz/sq.yd / 668 g/sq.m	
			Duraspun : 13.50 oz/sq.yd / 458 g/sq.m	

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

### Laminated Properties

45 °

45 °

Laminate Weight				
	E-BXM 4015 Resin Infused		E-BXM 4015 Open Mold	
Fiber	0.37 lb/sq.ft	1.79 kg/sq.m	0.37 lb/sq.ft	1.79 kg/sq.m
Resin	0.17 lb/sq.ft	0.84 kg/sq.m	0.41 lb/sq.ft	1.98 kg/sq.m
Total	0.54 lb/sq.ft	2.64 kg/sq.m	0.77 lb/sq.ft	3.78 kg/sq.m

Physical Properties				
	E-BXM 4015 Resin Infused		E-BXM 4015 Open Mold	
Density	1.08 oz/cu.in	1.87 g/cc	0.93 oz/cu.in	1.60 g/cc
Fiber Content	68% by Wt.	50% by Vol.	48% by Wt.	30% by Vol.
Thickness	0.055 in	1.4 mm	0.093 in	2.4 mm

**Laminate Moduli**

	E-BXM 4015 Resin Infused		E-BXM 4015 Open Mold	
	Ex	3.31 MSI	22.79 GPa	2.15 MSI
Ey	3.31 MSI	22.79 GPa	2.15 MSI	14.81 GPa
Gxy	0.67 MSI	4.59 GPa	0.45 MSI	3.09 GPa
Ex,flex.	3.14 MSI	21.65 GPa	2.04 MSI	14.07 GPa
Ey,flex.	3.14 MSI	21.65 GPa	2.04 MSI	14.07 GPa

**Ultimate Stress**

	E-BXM 4015 Resin Infused		E-BXM 4015 Open Mold	
	Long. Ten.	54.2 KSI	373.8 MPa	35.2 KSI
Long. Comp.	75.4 KSI	519.7 MPa	49.0 KSI	337.8 MPa
Trans. Ten.	54.2 KSI	373.8 MPa	35.2 KSI	243.0 MPa
Trans. Comp.	75.4 KSI	519.7 MPa	49.0 KSI	337.8 MPa
In-Plane Shear	15.2 KSI	104.7 MPa	10.2 KSI	70.5 MPa
Long. Flex.	77.8 KSI	536.1 MPa	50.5 KSI	348.4 MPa
Trans. Flex.	77.8 KSI	536.1 MPa	50.5 KSI	348.4 MPa

**In-Plane Stiffness, "EA"**

	E-BXM 4015 Resin Infused		E-BXM 4015 Open Mold	
	(EA)x	183,258 lb/in	32,092 N/mm	199,507 lb/in
(EA)y	183,258 lb/in	32,092 N/mm	199,507 lb/in	34,937 N/mm
(GA)xy	36,902 lb/in	6,462 N/mm	41,622 lb/in	7,289 N/mm

**Ultimate In-Plane Load**

	E-BXM 4015 Resin Infused		E-BXM 4015 Open Mold	
	Long. Ten.	3,005 lb/in	526 N/mm	3,272 lb/in
Long. Comp.	4,178 lb/in	732 N/mm	4,549 lb/in	797 N/mm
Trans. Ten.	3,005 lb/in	526 N/mm	3,272 lb/in	573 N/mm
Trans. Comp.	4,178 lb/in	732 N/mm	4,549 lb/in	797 N/mm
In-Plane Shear	841 lb/in	147 N/mm	949 lb/in	166 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.