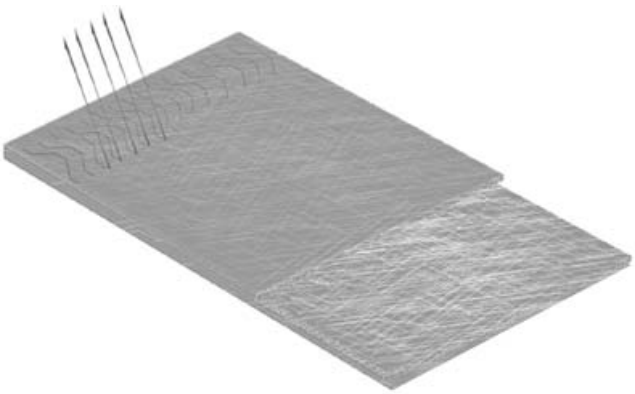
VECTORPLY®
Performance Composite Reinforcements



E-M 0015

Fiber Type:	E-Glass
Architecture:	Random Mat
Dry Thickness:	0.028 in. / 0.71 mm
Total Weight:	13.50 oz/sq.yd / 458 g/sq.m

Roll Specifications

Roll Width:	Roll Weight:	Roll Length:
50 in / 1270 mm	145 lb / 66 kg	119 yd / 109 m

Fiber Architecture Data

0 ° :	n/a
45 ° :	n/a
90 ° :	n/a
-45 ° :	n/a
Chopped Mat :	13.50 oz/sq.yd / 458 g/sq.m

1: Packaging: box or bag.
2: Weights do not include polyester stitching.

Laminated Properties 0 ° 0 °

Laminate Weight

	E-M 0015 Resin Infused		E-M 0015 Open Mold	
Fiber	0.09 lb/sq.ft	0.46 kg/sq.m	0.09 lb/sq.ft	0.46 kg/sq.m
Resin	0.05 lb/sq.ft	0.24 kg/sq.m	0.18 lb/sq.ft	0.89 kg/sq.m
Total	0.14 lb/sq.ft	0.69 kg/sq.m	0.28 lb/sq.ft	1.35 kg/sq.m

Physical Properties

	E-M 0015 Resin Infused		E-M 0015 Open Mold	
Density	1.06 oz/cu.in	1.84 g/cc	0.85 oz/cu.in	1.46 g/cc
Fiber Content	66% by Wt.	48% by Vol.	34% by Wt.	20% by Vol.
Thickness	0.015 in	0.4 mm	0.036 in	0.9 mm

Laminate Modulii

	E-M 0015 Resin Infused		E-M 0015 Open Mold	
Ex	1.87 MSI	12.90 GPa	1.07 MSI	7.39 GPa
Ey	1.87 MSI	12.90 GPa	1.07 MSI	7.39 GPa
Gxy	0.73 MSI	5.02 GPa	0.41 MSI	2.86 GPa
Ex,flex.	1.78 MSI	12.25 GPa	1.02 MSI	7.02 GPa
Ey,flex.	1.78 MSI	12.25 GPa	1.02 MSI	7.02 GPa

Ultimate Stress

	E-M 0015 Resin Infused		E-M 0015 Open Mold	
Long. Ten.	30.7 KSI	211.5 MPa	17.6 KSI	121.3 MPa
Long. Comp.	42.6 KSI	294.1 MPa	24.4 KSI	168.6 MPa
Trans. Ten.	30.7 KSI	211.5 MPa	17.6 KSI	121.3 MPa
Trans. Comp.	42.6 KSI	294.1 MPa	24.4 KSI	168.6 MPa
In-Plane Shear	16.6 KSI	114.5 MPa	9.5 KSI	65.2 MPa
Long. Flex.	45.8 KSI	316.1 MPa	26.3 KSI	181.2 MPa
Trans. Flex.	45.8 KSI	316.1 MPa	26.3 KSI	181.2 MPa

In-Plane Stiffness, "EA"

	E-M 0015 Resin Infused		E-M 0015 Open Mold	
(EA)x	27,748 lb/in	4,859 N/mm	38,874 lb/in	6,808 N/mm
(EA)y	27,748 lb/in	4,859 N/mm	38,874 lb/in	6,808 N/mm
(GA)xy	10,806 lb/in	1,892 N/mm	15,041 lb/in	2,634 N/mm

Ultimate In-Plane Load

	E-M 0015 Resin Infused		E-M 0015 Open Mold	
Long. Ten.	455 lb/in	80 N/mm	638 lb/in	112 N/mm
Long. Comp.	633 lb/in	111 N/mm	886 lb/in	155 N/mm
Trans. Ten.	455 lb/in	80 N/mm	638 lb/in	112 N/mm
Trans. Comp.	633 lb/in	111 N/mm	886 lb/in	155 N/mm
In-Plane Shear	246 lb/in	43 N/mm	343 lb/in	60 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.

VECTORPLY CORPORATION

3500 Lakewood Dr. Phenix City, AL 36867 tel. 334 291 7704 fax. 334 291 7743

REV: 6/17/2015

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.