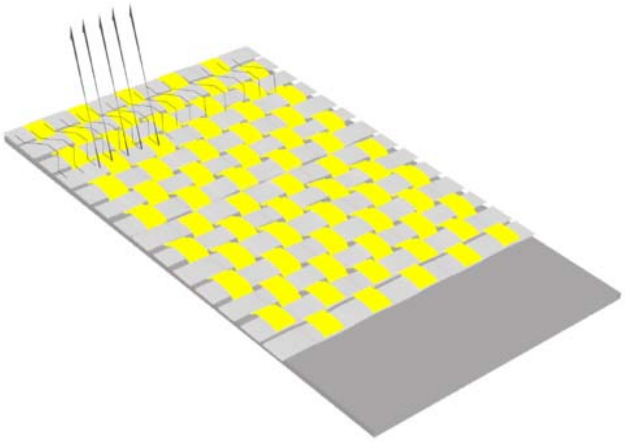
VECTORPLY®
Performance Composite Reinforcements



E-WMV 2415

Fiber Type:	E-Glass
Architecture:	Woven
Dry Thickness:	0.063 in. / 1.60 mm
Total Weight:	38.28 oz/sq.yd / 1298 g/sq.m

Roll Specifications

Roll Width:	Roll Weight:	Roll Length:
50 in / 1270 mm	172 lb / 78 kg	49 yd / 45 m

Fiber Architecture Data

0 ° :	14.16 oz/sq.yd / 480 g/sq.m
45 ° :	n/a
90 ° :	10.62 oz/sq.yd / 360 g/sq.m
-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-WMV 2415 Resin Infused		E-WMV 2415 Open Mold	
Fiber	0.27 lb/sq.ft	1.30 kg/sq.m	0.27 lb/sq.ft	1.30 kg/sq.m
Resin	0.15 lb/sq.ft	0.74 kg/sq.m	0.43 lb/sq.ft	2.10 kg/sq.m
Total	0.42 lb/sq.ft	2.04 kg/sq.m	0.70 lb/sq.ft	3.39 kg/sq.m

Physical Properties	E-WMV 2415 Resin Infused		E-WMV 2415 Open Mold	
Density	1.04 oz/cu.in	1.81 g/cc	0.87 oz/cu.in	1.50 g/cc
Fiber Content	64% by Wt.	45% by Vol.	38% by Wt.	23% by Vol.
Thickness	0.044 in	1.1 mm	0.089 in	2.3 mm

Laminate Modulii	E-WMV 2415 Resin Infused		E-WMV 2415 Open Mold	
Ex	2.58 MSI	17.80 GPa	1.55 MSI	10.71 GPa
Ey	2.37 MSI	16.36 GPa	1.44 MSI	9.93 GPa
Gxy	0.60 MSI	4.15 GPa	0.39 MSI	2.69 GPa
Ex,flex.	2.45 MSI	16.91 GPa	1.48 MSI	10.18 GPa
Ey,flex.	2.25 MSI	15.54 GPa	1.37 MSI	9.43 GPa

Ultimate Stress	E-WMV 2415 Resin Infused		E-WMV 2415 Open Mold	
Long. Ten.	40.3 KSI	278.2 MPa	24.3 KSI	167.4 MPa
Long. Comp.	35.8 KSI	247.0 MPa	21.6 KSI	148.6 MPa
Trans. Ten.	37.1 KSI	255.6 MPa	22.5 KSI	155.1 MPa
Trans. Comp.	32.9 KSI	227.0 MPa	20.0 KSI	137.8 MPa
In-Plane Shear	12.0 KSI	83.0 MPa	7.8 KSI	53.8 MPa
Long. Flex.	54.0 KSI	372.1 MPa	32.5 KSI	223.9 MPa
Trans. Flex.	49.6 KSI	341.9 MPa	30.1 KSI	207.5 MPa

In-Plane Stiffness, "EA"	E-WMV 2415 Resin Infused		E-WMV 2415 Open Mold	
(EA)x	114,630 lb/in	20,074 N/mm	138,051 lb/in	24,175 N/mm
(EA)y	105,339 lb/in	18,447 N/mm	127,974 lb/in	22,410 N/mm
(GA)xy	26,712 lb/in	4,678 N/mm	34,672 lb/in	6,072 N/mm

Ultimate In-Plane Load	E-WMV 2415 Resin Infused		E-WMV 2415 Open Mold	
Long. Ten.	1,791 lb/in	314 N/mm	2,157 lb/in	378 N/mm
Long. Comp.	1,590 lb/in	279 N/mm	1,915 lb/in	335 N/mm
Trans. Ten.	1,646 lb/in	288 N/mm	2,000 lb/in	350 N/mm
Trans. Comp.	1,462 lb/in	256 N/mm	1,776 lb/in	311 N/mm
In-Plane Shear	534 lb/in	94 N/mm	693 lb/in	121 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: 9/24/2015