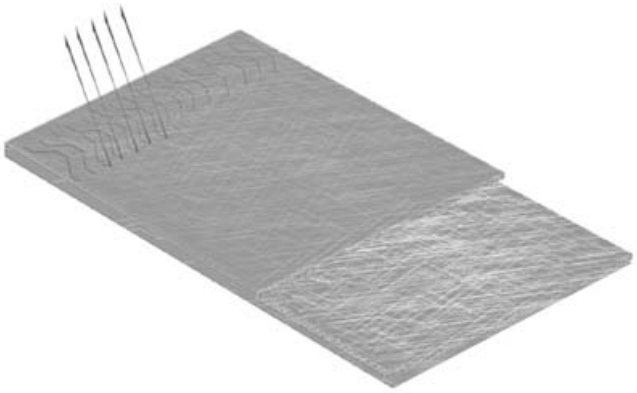
VECTORPLY®
Performance Composite Reinforcements



E-M 0030

Fiber Type:	E-Glass
Architecture:	Random Mat
Dry Thickness:	0.046 in. / 1.17 mm
Total Weight:	27.00 oz/sq.yd / 915 g/sq.m

Roll Specifications

Roll Width:	Roll Weight:	Roll Length:
50 in / 1270 mm	139 lb / 63 kg	58 yd / 53 m

Fiber Architecture Data

0 ° :	n/a
45 ° :	n/a
90 ° :	n/a
-45 ° :	n/a
Chopped Mat :	27.00 oz/sq.yd / 915 g/sq.m

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

Laminated Properties 0 ° 0 °

Laminate Weight	E-M 0030 Resin Infused		E-M 0030 Open Mold	
Fiber	0.19 lb/sq.ft	0.92 kg/sq.m	0.19 lb/sq.ft	0.92 kg/sq.m
Resin	0.10 lb/sq.ft	0.47 kg/sq.m	0.36 lb/sq.ft	1.78 kg/sq.m
Total	0.28 lb/sq.ft	1.39 kg/sq.m	0.55 lb/sq.ft	2.69 kg/sq.m

Physical Properties	E-M 0030 Resin Infused		E-M 0030 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	0.030 in	0.8 mm	0.073 in	1.8 mm

Laminate Modulii

	E-M 0030 Resin Infused		E-M 0030 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 0030 Resin Infused		E-M 0030 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 0030 Resin Infused		E-M 0030 Open Mold	
(EA)x	55,496 lb/in	9,718 N/mm	77,749 lb/in	13,615 N/mm
(EA)y	55,496 lb/in	9,718 N/mm	77,749 lb/in	13,615 N/mm
(GA)xy	21,612 lb/in	3,785 N/mm	30,083 lb/in	5,268 N/mm

Ultimate In-Plane Load

	E-M 0030 Resin Infused		E-M 0030 Open Mold	
Long. Ten.	910 lb/in	159 N/mm	1,275 lb/in	223 N/mm
Long. Comp.	1,265 lb/in	222 N/mm	1,773 lb/in	310 N/mm
Trans. Ten.	910 lb/in	159 N/mm	1,275 lb/in	223 N/mm
Trans. Comp.	1,265 lb/in	222 N/mm	1,773 lb/in	310 N/mm
In-Plane Shear	493 lb/in	86 N/mm	686 lb/in	120 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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