



E-M 0020

Fiber Type: E-Glass
 Architecture: Random Mat
 Dry Thickness: 0.038 in. / 0.97 mm
 Total Weight: 18.00 oz/sq.yd / 610 g/sq.m

Roll Specifications			Fiber Architecture Data	
Roll Width:	Roll Weight:	Roll Length:	0 ° :	n/a
50 in / 1270 mm	136 lb / 62 kg	84 yd / 77 m	45 ° :	n/a
			90 ° :	n/a
			-45 ° :	n/a
			Chopped Mat :	18.00 oz/sq.yd / 610 g/sq.m

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight				
	E-M 0020 Resin Infused		E-M 0020 Open Mold	
Fiber	0.13 lb/sq.ft	0.61 kg/sq.m	0.13 lb/sq.ft	0.61 kg/sq.m
Resin	0.06 lb/sq.ft	0.31 kg/sq.m	0.24 lb/sq.ft	1.18 kg/sq.m
Total	0.19 lb/sq.ft	0.92 kg/sq.m	0.37 lb/sq.ft	1.80 kg/sq.m

Physical Properties				
	E-M 0020 Resin Infused		E-M 0020 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	0.020 in	0.5 mm	0.048 in	1.2 mm

Laminate Moduli

	E-M 0020		E-M 0020	
	Resin Infused		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 0020		E-M 0020	
	Resin Infused		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 0020		E-M 0020	
	Resin Infused		Open Mold	
(EA)x	36,997 lb/in	6,479 N/mm	51,833 lb/in	9,077 N/mm
(EA)y	36,997 lb/in	6,479 N/mm	51,833 lb/in	9,077 N/mm
(GA)xy	14,408 lb/in	2,523 N/mm	20,055 lb/in	3,512 N/mm

Ultimate In-Plane Load

	E-M 0020		E-M 0020	
	Resin Infused		Open Mold	
Long. Ten.	607 lb/in	106 N/mm	850 lb/in	149 N/mm
Long. Comp.	844 lb/in	148 N/mm	1,182 lb/in	207 N/mm
Trans. Ten.	607 lb/in	106 N/mm	850 lb/in	149 N/mm
Trans. Comp.	844 lb/in	148 N/mm	1,182 lb/in	207 N/mm
In-Plane Shear	328 lb/in	58 N/mm	457 lb/in	80 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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REV: 6/17/2015

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.