



FIBERGLASS DBM 1808 KNYTEX BIAxIAL +/- 90 DEGREE FABRIC MODEL #: F-681-50

FIBER ARCHITECTURE DATA

0°	8.96 oz/sq.yd / 304 g/sq.m
45°	n/a
90°	8.96 oz/sq.yd / 304 g/sq.m
-45°	n/a
Chopped Mat	8.10 oz/sq.yd / 275 g/sq.m

LAMINATED PROPERTIES (0° / 0°)

LAMINATE WEIGHT

(lb/sq.ft)	E-LTM 1808 Resin Infused	E-LTM 1808 Open Mold
Fiber	0.18	0.18
Resin	0.09	0.20
Total	0.27	0.38

PHYSICAL PROPERTIES

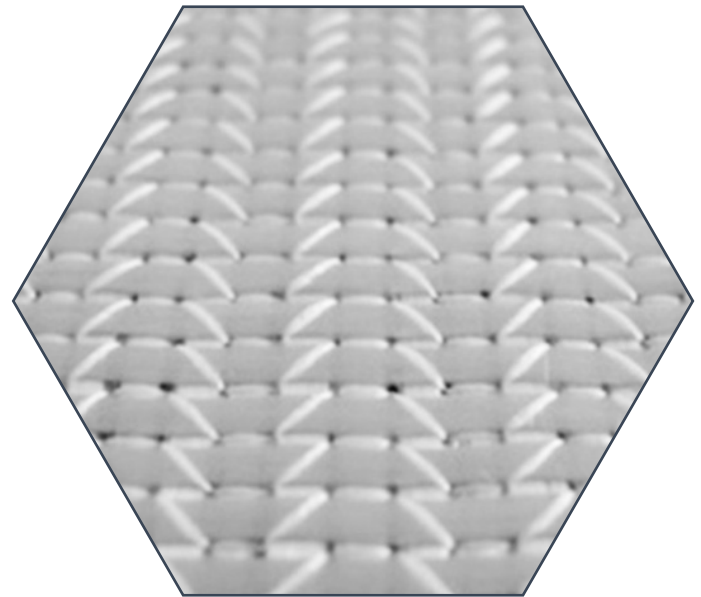
	E-LTM 1808 Resin Infused	E-LTM 1808 Open Mold
Density (g/cc))	1.84	1.60
Fiber Content (% by Wt.)	66%	47%
Thickness (in)	0.029	0.046

LAMINATE MODULII

(MSI)	E-LTM 1808 Resin Infused	E-LTM 1808 Open Mold
Ex	3.17	2.04
Ey	3.17	2.04
Gxy	0.53	0.32
Ex,flex.	2.91	1.86
Ey,flex.	2.91	1.86

IN-PLANE STIFFNESS, "EA"

10 ³ lb/ in	E-LTM 1808 Resin Infused	E-LTM 1808 Open Mold
(EA)x	91	94
(EA)y	91	94
(GA)xy	15	15





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ULTIMATE STRESS

(KSI)	E-LTM 1808 Resin Infused	E-LTM 1808 Open Mold
Long. Ten.	52	33
Long. Comp.	60	39
Trans. Ten.	52	33
Trans. Comp.	60	39
In-Plane Shear	2.91	1.86
Long. Flex.	75	49
Trans. Flex.	75	79

ULTIMATE IN-PLANE LOAD

lb/in	E-LTM 1808 Resin Infused	E-LTM 1808 Open Mold
Long. Ten.	1487	1544
Long. Comp.	1717	1783
Trans. Ten.	1487	1544
Trans. Comp.	1717	1783
In-Plane Shear	369	482

Notes:

- 1: Resin infused laminate made with vinyl ester resin 200 cps viscosity @ 77° F.
- 2: Open mold laminate made with polyester resin.
- 3: All standard reinforcements should be infused with a flow aid or Vectorfusion® reinforcements.

Information and data included in this data sheet is considered to be accurate and reliable to the best of our knowledge however it is not guaranteed to be so. It is the user/buyer's responsibility to determine for themselves the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. Composite Envisions make no representations or warranties as to the results to be obtained in using any material. As Composite Envisions cannot foresee all conditions under which products will be used, user/buyer waives any claim against Composite Envisions for direct, indirect, consequential, or exemplary damages including without limitation, damage which may incur as a result of user/buyer's use or misuse of the product or the product's failure to perform to any expected performance level.

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