



E-M 0040

Fiber Type: E-Glass
 Architecture: Random Mat
 Dry Thickness: 0.075 in. / 1.91 mm
 Total Weight: 36.00 oz/sq.yd / 1221 g/sq.m



Roll Specifications

Roll Width: 50 in / 1270 mm
 Roll Weight: 146 lb / 66 kg
 Roll Length: 46 yd / 42 m

Fiber Architecture Data

0 ° : n/a
 45 ° : n/a
 90 ° : n/a
 -45 ° : n/a
 Chopped Mat : 36.00 oz/sq.yd / 1221 g/sq.m

1: Packaging: box or bag.

2: Weights do not include polyester stitching.

Laminated Properties

0 °

0 °

Laminate Weight

| (lb/sq.ft) | E-M 0040 Resin Infused | E-M 0040 Open Mold |
|------------|---------------------------|-----------------------|
| Fiber | 0.25 | 0.25 |
| Resin | 0.13 | 0.49 |
| Total | 0.38 | 0.74 |

Physical Properties

| | E-M 0040 Resin Infused | E-M 0040 Open Mold |
|--------------------------|---------------------------|-----------------------|
| Density (g/cc) | 1.84 | 1.46 |
| Fiber Content (% by Wt.) | 66% | 34% |
| Thickness (in) | 0.040 | 0.097 |

| Laminate Modulii | | |
|------------------|---------------------------|-----------------------|
| (MSI) | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Ex | 1.87 | 1.07 |
| Ey | 1.87 | 1.07 |
| Gxy | 0.73 | 0.41 |
| Ex,flex. | 1.78 | 1.02 |
| Ey,flex. | 1.78 | 1.02 |

| Ultimate Stress | | |
|-----------------|---------------------------|-----------------------|
| (KSI) | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Long. Ten. | 31 | 18 |
| Long. Comp. | 43 | 24 |
| Trans. Ten. | 31 | 18 |
| Trans. Comp. | 43 | 24 |
| In-Plane Shear | 17 | 9 |
| Long. Flex. | 46 | 26 |
| Trans. Flex. | 46 | 26 |

| In-Plane Stiffness, "EA" | | |
|--------------------------|---------------------------|-----------------------|
| 10 ³ lb/in | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| (EA)x | 74 | 104 |
| (EA)y | 74 | 104 |
| (GA)xy | 29 | 40 |

| Ultimate In-Plane Load | | |
|------------------------|---------------------------|-----------------------|
| lb/in | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Long. Ten. | 1,214 | 1,700 |
| Long. Comp. | 1,687 | 2,364 |
| Trans. Ten. | 1,214 | 1,700 |
| Trans. Comp. | 1,687 | 2,364 |
| In-Plane Shear | 657 | 915 |

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.



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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.