



E-M 0040

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



| Roll Specifications | | | Fiber Architecture Data | |
|---------------------|----------------|--------------|-------------------------|------------------------------|
| Roll Width: | Roll Weight: | Roll Length: | 0 ° : | n/a |
| 50 in / 1270 mm | 146 lb / 66 kg | 46 yd / 42 m | 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 | 0.70 |
| Total | 0.38 | 0.95 |

| Physical Properties | | |
|--------------------------|---------------------------|-----------------------|
| | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Density (g/cc) | 1.84 | 1.39 |
| Fiber Content (% by Wt.) | 66% | 26% |
| Thickness (in) | 0.040 | 0.132 |

| Laminate Moduli | | |
|-----------------|---------------------------|-----------------------|
| (MSI) | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Ex | 1.67 | 0.83 |
| Ey | 1.67 | 0.83 |
| Gxy | 0.62 | 0.30 |
| Ex,flex. | 1.38 | 0.67 |
| Ey,flex. | 1.38 | 0.67 |

| Ultimate Stress | | |
|-----------------|---------------------------|-----------------------|
| (KSI) | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Long. Ten. | 27 | 14 |
| Long. Comp. | 38 | 19 |
| Trans. Ten. | 27 | 14 |
| Trans. Comp. | 38 | 19 |
| In-Plane Shear | 15 | 10 |
| Long. Flex. | 43 | 21 |
| Trans. Flex. | 43 | 21 |

| In-Plane Stiffness, "EA" | | |
|--------------------------|---------------------------|-----------------------|
| 10 ³ lb/in | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| (EA)x | 66 | 109 |
| (EA)y | 66 | 109 |
| (GA)xy | 24 | 39 |

| Ultimate In-Plane Load | | |
|------------------------|---------------------------|-----------------------|
| lb/in | E-M 0040 Resin Infused | E-M 0040 Open Mold |
| Long. Ten. | 1,090 | 1,785 |
| Long. Comp. | 1,515 | 2,482 |
| Trans. Ten. | 1,090 | 1,785 |
| Trans. Comp. | 1,515 | 2,482 |
| In-Plane Shear | 602 | 1,293 |

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.



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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.