

# Knitmat® 0°/90°

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**Knitmat®** is a High Strength Stitch bonded product. Stitch bonding mechanically combines warp (0°) and weft (90°) roving. **Knitmat®** products are available with and without chopped glass strand. Combinations with glass, polyester, and other veils, along with CSM are available upon request. The resulting no crimp product is extremely conformable, offering fast wet out, and excellent process-ability due to high dry wet strength. **Knitmat®** is ideal for hand lay up molding, resin infusion process, SRIM, RRIM, and SCRIMP® processes. FGI's proprietary sizing allows the end user complete compatibility, with Polyester, Vinyl Ester, Epoxy, and Polyurethane resin systems.

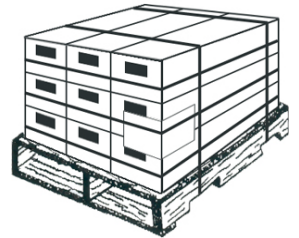
## Product Data

|                                   | S1200    | S1208    | S1800    | S1808    | S2400    | S2408    | S3208    | S3610    |
|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>Nominal Weight oz./sq. yd.</b> | 12.50    | 20.95    | 18.00    | 26.35    | 24.00    | 32.38    | 40.32    | 45.00    |
| <b>0°/90° Weight oz./sq. yd.</b>  | 12.50    | 12.85    | 18.00    | 18.25    | 24.00    | 24.28    | 32.22    | 36.00    |
| <b>Mat Weight oz./sq. yd.</b>     | N/A      | 8.10     | N/A      | 8.10     | N/A      | 8.10     | 8.10     | 9.00     |
| <b>Nominal Thickness</b>          | .025     | .045     | .030     | .055     | .045     | .065     | .075     | .090     |
| <b>Roll Length Yards</b>          | 175      | 100      | 125      | 80       | 90       | 70       | 55       | 60       |
| <b>Roll Length Meters</b>         | 160.0    | 91.4     | 114.3    | 73.1     | 82.3     | 64.0     | 50.3     | 54.8     |
| <b>Weight per inch of Width</b>   | 3.7 lbs. | 3.4 lbs. | 3.9 lbs. | 3.4 lbs. | 3.8 lbs. | 3.8 lbs. | 3.7 lbs. | 4.7 lbs. |

\* Optional styles available upon request — Special pricing may be applicable.

## Packaging Data

All rolls individually boxed and palletized according to size and weight.

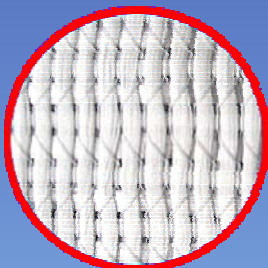


## Typical Test Data

| Properties              | S1808, S2408, S3208 |               |               |
|-------------------------|---------------------|---------------|---------------|
|                         | 0° (ksi)            | 90° (ksi)     | Modulus (msi) |
| Tensile                 | 34.80 - 41.70       | 21.30 - 48.10 | 2.30 - 2.60   |
| Compressive             | 38.70 - 50.10       | 23.90 - 50.20 | 2.20 - 3.10   |
| Flexural                | 55.60 - 66.00       | 34.70 - 74.90 | 1.80 - 2.10   |
| Glass Content by Weight | 47 - 55%            | 47 - 55%      | 47 - 55%      |

The information herein is to assist customers in determining whether our products are suitable for their applications. Nothing herein shall constitute a warranty, expressed or implied. Relative values shown are accurate to the best of our knowledge

Rev. 03 04/08/04



S2400



0° - 90° - Chop