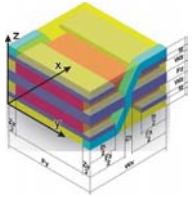


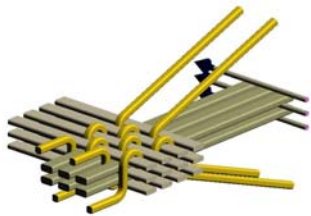
3WEAVE™ advantages

3-D WOVEN COMPOSITE REINFORCEMENT



3WEAVE™ E-Glass Properties

| Fabric # | 17 oz/yd ² 6 | 54 oz/yd ² 1 | 77 oz/yd ² 1 | 77 oz/yd ² 2 | 96 oz/yd ² 1 | 96 oz/yd ² 2 |
|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Resin | Derakane8084 | Derakane8084 | Derakane8084 | Hydrex 100 | Hydrex 100 | Hydrex 100 |
| Process | Vac Infusion | Vac Infusion | Vac Infusion | Vac Infusion | Vac Infusion | Vac Infusion |
| Manf | 3TEX | 3TEX | 3TEX | 3TEX | 3TEX | 3TEX |
| Test Lab | PPG | PPG | PPG | PPG | PPG | PPG |
| Flexure ASTM D790 | | | | | | |
| Aspect Ratio | 25 | 16 | 16 | 16 | 16 | 16 |
| Warp Modulus (msi) | 3.08 | 2.43 | 2.10 | 3.04 | 2.48 | 3.12 |
| Fill (width) Modulus | -- | 3.85 | 3.44 | 3.38 | 3.47 | 3.13 |
| Warp Strength (ksi) | 50.0 | 85 | 76.1 | 101 | 101 | 92.6 |
| Fill (width) Strength | -- | 92.7 | 98.8 | 78.1 | 93.4 | 77.6 |
| Tension ASTM D638 | | | | | | |
| Warp Modulus (msi) | 3.88 | 3.67 | 2.53 | 3.53 | 2.64 | 3.64 |
| Fill (width) Modulus | 3.20 | 3.68 | 3.47 | 3.66 | 3.58 | 3.48 |
| Warp Strength (ksi) | 64.8 | 59.9 | 57.2 | 63.3 | 66.4 | 61.1 |
| Fill (width) Strength | 59.8 | 44.3 | 56.3 | 63.2 | 63.2 | 59.4 |
| Compression D695 | | | | | | |
| Warp Strength (ksi) | 29.6 | 49.5 | 70.6 | 57.9 | 57.8 | 64.9 |
| Fill (width) Strength | -- | 45.5 | 71.7 | 45.9 | 42.7 | 54.0 |
| Fiber Weight | 70% | 68% | 68% | 72% | 71% | 69% |



A note on flexural rigidity:

3WEAVE™ architecture delivers maximum bending stiffness in the "Y" (width) direction of the material. While these materials are X-Y balanced in fiber content, they provide maximum bending stiffness in the "Y" (width) direction. For example, in marine hull applications this acts as a beam increasing stiffness across the fore/aft stringers.

This information is not to be taken as a warranty or representation for which we assume legal responsibility. It is offered solely for your consideration, investigation, verification and shall form no part of any contract with the customer.



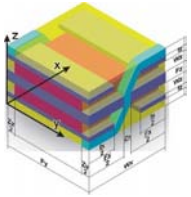
Revolutionizing the composites industry with high-performance 3D woven reinforcements

www.3tex.com

109 MacKenan Dr, Cary, NC 27511
919 . 481 . 2500

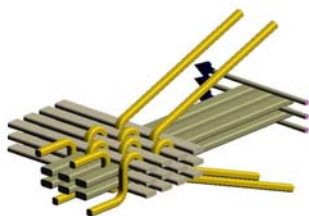
3WEAVE™ advantages

3-D WOVEN COMPOSITE REINFORCEMENT



Specialty 3WEAVE™ Properties

| Fabric | 125 oz/yd ² Eglass | 215 oz/yd ² Eglass |
|-----------------------|-------------------------------|-------------------------------|
| # Plies | 1 | 1 |
| Resin | Derakane8084 | Derakane8084 |
| Process | Vac Infusion | Vac Infusion |
| Manf | 3TEX | 3TEX |
| Test Lab | PPG | PPG |
| Flexure ASTM D790 | | |
| Aspect Ratio | 25 | -- |
| Warp Modulus (msi) | 6.58 | -- |
| Fill (width) Modulus | -- | -- |
| Warp Strength (ksi) | 50.0 | -- |
| Fill (width) Strength | -- | -- |
| Tension ASTM D638 | | |
| Warp Modulus (msi) | 6.58 | 3.80 |
| Fill (width) Modulus | 3.19 | 3.73 |
| Warp Strength (ksi) | 72.1 | 63.9 |
| Fill (width) Strength | 38.6 | 71.7 |
| Compression D695 | | |
| Warp Strength (ksi) | 62.9 | 44.2 |
| Fill (width) Strength | -- | -- |
| Fiber Weight | 72% | 72% |



A note on flexural rigidity:
3WEAVE™ architecture delivers maximum bending stiffness in the "Y" (width) direction of the material. While these materials are X-Y balanced in fiber content, they provide maximum bending stiffness in the "Y" (width) direction. For example, in marine hull applications this acts as a beam increasing stiffness across the fore/aft stringers.

This information is not to be taken as a warranty or representation for which we assume legal responsibility. It is offered solely for your consideration, investigation, verification and shall form no part of any contract with the customer.

Revolutionizing the composites industry with high-performance 3D woven reinforcements

www.3tex.com

109 MacKenan Dr, Cary, NC 27511
919 . 481 . 2500

REV 11-04

