SANDWICH TECH

TDS

Technical Data Sheet

Triaxial Fiberglass - 23oz

This non-woven e-glass is popular in ski and snowboard construction. A layer above and below the core makes a composite sandwich that is reinforced for stiffness both longitudinally (fibers in the 0 direction) and torsionally (fibers in the 45/-45 directions).

Dry Fabric Densities	0°	-45°	45°	Total*
Density (oz/yd²)	12.80	5.38	5.38	23.55
Density (gsm)	434.0	182.3	182.3	798.6

*Areal density without stitching. Stitch density is 0.36oz/yd² or 12.2gsm.

Laminate Properties	Imperial Units	SI Units
Pressed thickness (t)	0.023 in	0.57 mm
Longitudinal modulus (E_x)	3.91 Msi	26.9 GPa
Tensile stiffness ($A_{xx} = E_x * t$)	**87.9 kip/in**	**15.4 kN/mm**
Shear Modulus (G_{xy})	0.73 Msi	5.00 GPa
Torsional stiffness ($A_{ss} = G_{xy} * t$)	**16.3 kip/in**	**2.86 kN/mm**

Note: Properties are for a lamination with epoxy and a 55% fiber volume fraction. Values are theoretical given known fiber and epoxy properties.

This technical information provided represents the best of our knowledge. We cannot guarantee this data because conditions of product use are beyond our control.

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