



A&P Technology

SINGLE LAYER, BALANCED 0°, +/-60° FABRIC OFFERING:

- Same Properties in Every Direction - No Concern with Misorientation
- Significant Cost Savings - Easier, Faster Layup with Reduced Waste
- Heavier Weight QISO Fabrics Offer High Drapability Compared to Alternatives
- Superior Performance

QISO-395-48 Technical Data Sheet

FABRIC: 2 x 2 Twill

RAW MATERIAL: Bias - AS4C-GP 6K (3000) (Hexcel) – 67% of weight

Axial – T-700 SC 12K 50C (Toray) – 33% of weight

LINK TO Hexcel CARBON FIBER DATASHEET

LINK TO Toray CARBON FIBER DATASHEET

FABRIC WIDTH: 48"

BRAID ANGLE: 0°, +/-60°

BRAID YIELD: 1.0 yd/lb (2.0 m/kg)

AREAL WEIGHT: 393 GSM

LAYER THICKNESS: (@55%FV): .016" (.41 mm)



STANDARD FABRIC TOLERANCES

YIELD TOLERANCE: +/-5%

ANGLE TOLERANCE: +/-3°

STANDARD PACKAGING ON 6" CORES

Additional Quality Specifications available upon request

Better With Braid.[®]

For more information, please visit www.braider.com OR contact a sales rep at sales@braider.com or 513-688-3200



QISO Light Average Data*
272 GSM

Mechanical Properties	Average
0° Tensile Str. (ksi)	107
0° Tensile Mod. (Msi)	6.9
90° Tensile Str. (ksi)	95
90° Tensile Mod. (Msi)	6.5
0° Compressive Str. (ksi)	85
0° Compressive Mod. (Msi)	6.1
90° Compressive Mod. (Msi)	6.1
0° In-plane Shear Str. (ksi)	47
0° In-plane Shear Mod. (Msi)	2.4

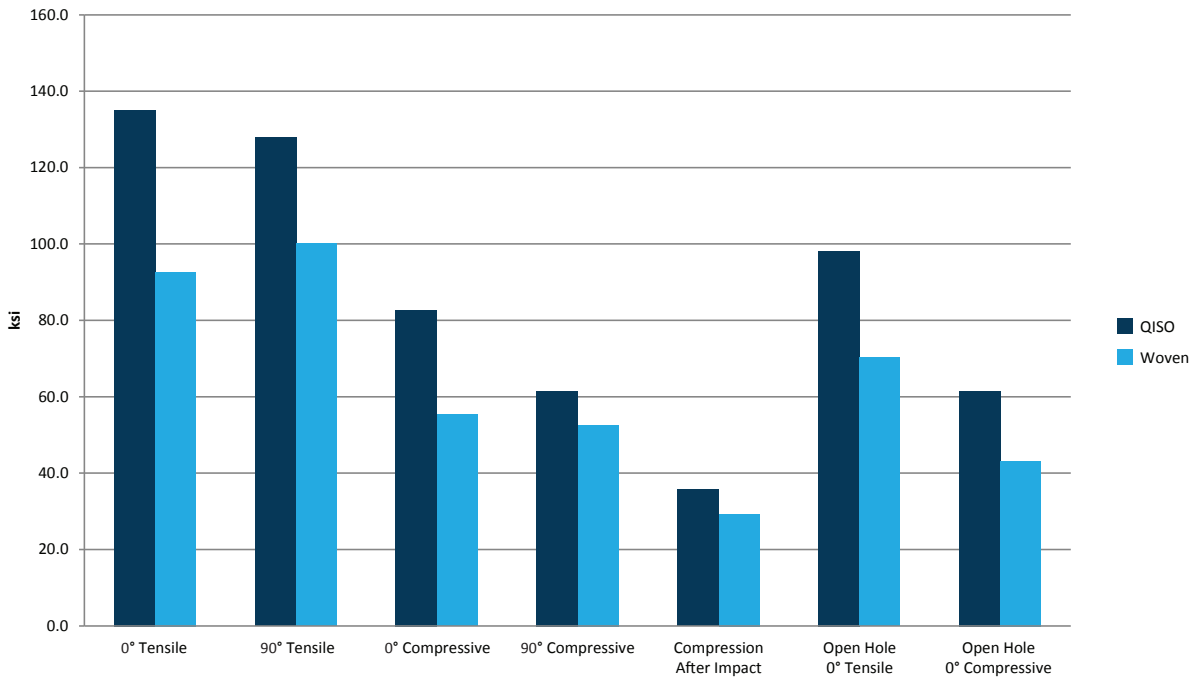
QISO Heavy Average Data*
536 GSM

Mechanical Properties	Average
0° Tensile Str. (ksi)	119
0° Tensile Mod. (Msi)	6.6
90° Tensile Str. (ksi)	110
90° Tensile Mod. (Msi)	6.7
0° Compressive Str. (ksi)	78
0° Compressive Mod. (Msi)	6.1
90° Compressive Mod. (Msi)	6.3
0° In-plane Shear Str. (ksi)	34
0° In-plane Shear Mod. (Msi)	2.4

* These averages are derived from extensive testing performed using a variety of epoxy resins. If interested in specific fabric/resin system data including thermoplastic data, please contact sales@braider.com

QISO-H v. Woven PW Quasi-Isotropic Layup
TC275-1 Resin

T700S 12K, Normalized to 55% Vf



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