



**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-440-IM-48 Technical Data Sheet

**FABRIC:** 2 x 2 Twill

**RAW MATERIAL:** Bias - IM7 12K GP (5000) (Hexcel) – 67% of weight Axial – IM7 12K GP (5000) (Hexcel) – 33% of weight

**LINK TO CARBON FIBER DATASHEET**

**FABRIC WIDTH:** 48"

**BRAID ANGLE:** 0°, +/-60°

**BRAID YIELD:** 0.9 yd/lb (1.9 m/kg)

**AREAL WEIGHT:** 439 GSM

**LAYER THICKNESS:** (@55%FV): .018" (.45 mm)



**STANDARD FABRIC TOLERANCES**

**YIELD TOLERANCE:** +/-5%

**ANGLE TOLERANCE:** +/-3°

**STANDARD PACKAGING ON 6" CORES**

*Additional Quality Specifications available upon request*

# Better With Braid.<sup>®</sup>

For more information, please visit [www.braider.com](http://www.braider.com) OR contact a sales rep at [sales@braider.com](mailto: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

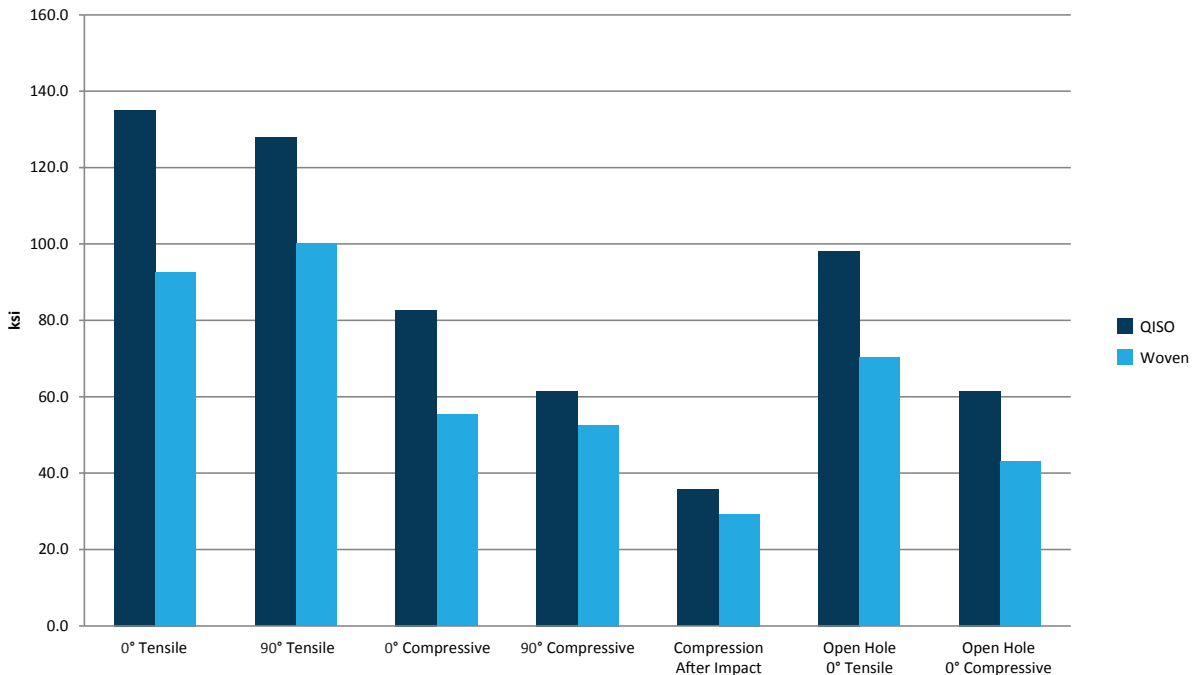
### QISO Heavy Average Data\* 536 GSM

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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