



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
 - Superior Performance
- Heavier Weight QISO Fabrics Offer High Drapability Compared to Alternatives

QISO-H-48

Fabric: 2 x 2 Twill

Raw Material: Bias – T-700 SC 12K 50C (Toray) – 67% of weight
Axial – T-700 SC 12K 50C (Toray) – 33% of weight

Link to carbon fiber datasheets: <https://www.toraycma.com/page.php?id=661>

Fabric Width: 47.9"

Braid Angle: 0°, +/-60°

Braid Yield: 0.8 yd/lb (1.6 m/kg)

Areal Weight: 536 GSM

Layer Thickness (@55%FV): .02" (.53 mm)

Standard Fabric Tolerances

Yield Tolerance: +/-5%

Angle Tolerance: +/-3°

Standard Packaging on 6" Cores

Additional Quality Specifications available upon request



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

All technical information and data contained herein is believed accurate and reliable. However, the accuracy and completeness of this information is not guaranteed and is subject to change without notice. A&P Technology shall not be liable for injury, loss or damage whether direct or consequential arising out of use of the data provided herein.

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% Vr

