



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

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### QISO-L-52

**Fabric:** 2 x 2 Twill

**Raw Material:** Bias - AS4C-GP 3K (Hexcel) – 67% of weight

Axial – AS4C-GP 6K (Hexcel) – 33% of weight

**Link to carbon fiber datasheet:**

[https://www.hexcel.com/user\\_area/content\\_media/raw/AS4C\\_Aerospace\\_HexTow\\_DataSheet.pdf](https://www.hexcel.com/user_area/content_media/raw/AS4C_Aerospace_HexTow_DataSheet.pdf)

**Fabric Width:** 52"

**Braid Angle:** 0°, +/-60°

**Braid Yield:** 1.4 yd/lb (2.8 m/kg)

**Areal Weight:** 272 GSM

**Layer Thickness (@55%FV):** .01" (.28 mm)



**Standard Fabric Tolerances**

**Yield Tolerance:** +/-5%

**Angle Tolerance:** +/-3°

Standard Packaging on 6" Cores

*Additional Quality Specifications available upon request*

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For more information, please visit [www.braider.com](http://www.braider.com), or contact a sales representative at [sales@braider.com](mailto:sales@braider.com) or 513-688-3200

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## 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](mailto:sales@braider.com)

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

T700S 12K, Normalized to 55% Vr

