



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-M-48

Fabric: 2 x 2 Twill

Raw Material: Bias - AS4C-GP 6K (Hexcel) – 67% of weight

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

Link to carbon fiber datasheets:

https://www.hexcel.com/user_area/content_media/raw/AS4C_Aerospace_HexTow_DataSheet.pdf

<https://www.toraycma.com/page.php?id=661>

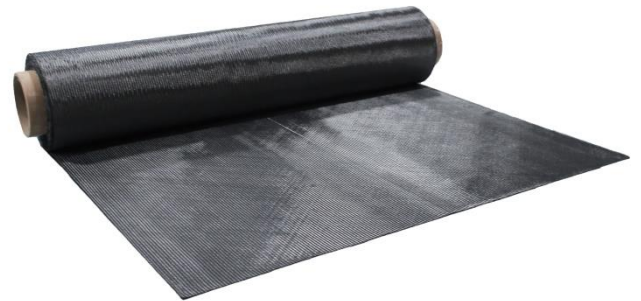
Fabric Width: 48"

Braid Angle: 0°, +/-60°

Braid Yield: 1.0 yd/lb (2.0 m/kg)

Areal Weight: 393 GSM

Layer Thickness (@55%FV): .02" (.41 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

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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

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

T700S 12K, Normalized to 55% Vr

