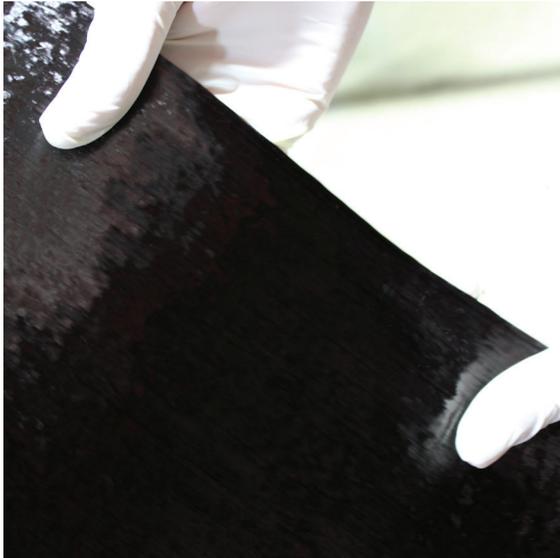


# 2583

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## Unidirectional Carbon Fabric (9.0 oz)



### 9.0 oz/sq yd, 12K, .014" thick

This unidirectional is made without the typical hot melt process. Consequently, there is no crimping of the fibers and only minimal binder is used. This results in the highest property unidirectional dry reinforcement available. The 9 oz is used in many marine applications such as boat hulls, as well as hockey sticks and bicycles. The Intermediate Modulus 4.3 oz Uni is used in aerospace and racing applications where maximum single directional properties are critical. 12" wide.

### Description

This unidirectional carbon is a non-woven fabric with a relatively small percentage of binder material (less than 3%). The binder is applied to only one side of the fabric resulting in virtually no crimp in the reinforcement fibers.

### Resin Compatibility

2583, Unidirectional Carbon Fabric, is compatible with Polyester, Vinyl Ester, and Epoxy Resin.

Specific Product Properties	
Type	12K Carbon Multifilament Continuous Tow
Twist	Untwisted
Tensile Strength	Fiber: 700 - 850 KSI Fabric: 400 - 485 KSI
Tensile Modulus	Fiber: 33.0 - 41.5 MSI Fabric: 19.7 - 24.5 MSI
Elongation	1.8% - 2.2%
Weight	9.0 - 9.6 oz/yd <sup>2</sup>
Weave Pattern	Unidirectional
Yield	15.9 +/- 0.5 ft/lb
Binder	0.5% - 1.0%
Width	11.87 - 12.13 in