



Gateway Carbon Fiber Fabrics satisfy both cosmetic and performance driven criteria. Carbon fiber fabrics exhibit high strength to weight ratios. The fabrics are available in various tensile strengths and modulus to satisfy property criteria of general purpose to high performance. Gateway Composites provides users with a range of standard fabrics of which all tensile strength, modulus, area weights, widths and weave constructions can be customized to meet customer requirements.

## Standard Fabrics

Gateway Composites Description	Fiber Input	Weave Construction	Area Weight	Standard Width (inches)	Standard Length (yards)
<b>3K2X2TW200</b>	3K	2x2 Twill	205g/m <sup>2</sup> 6 oz/yd <sup>2</sup>	50	100
<b>3KPW195</b>	3K	Plain Weave	195g/m <sup>2</sup> 5.8 oz/yd <sup>2</sup>	50	100
<b>3KPW205</b>	3K	Plain Weave	205g/m <sup>2</sup> 6 oz/yd <sup>2</sup>	50	100
<b>3K4HS205</b>	3K	4 Harness Satin	205g/m <sup>2</sup> 6 oz/yd <sup>2</sup>	50	100
<b>3K4X4CV</b>	3K	4x4 Chevron	270g/m <sup>2</sup> 8 oz/yd <sup>2</sup>	50	100
<b>3K5HS285</b>	3k	5 Harness Satin	285g/m <sup>2</sup> 8.4 oz/yd <sup>2</sup>	50	100
<b>6K5HS370</b>	6K	5 Harness Satin	370g/m <sup>2</sup> 10.9 oz/yd <sup>2</sup>	50	100
<b>6K</b>	6K	2x2 Twill	370g/m <sup>2</sup> 10.9 oz/yd <sup>2</sup>	50	100
<b>12K2X2TW400</b>	12K	2x2 Twill	400g/m <sup>2</sup> 12 oz/yd <sup>2</sup>	24, 50	100
<b>12KPW400</b>	12K	Plain Weave	400g/m <sup>2</sup> 12 oz/yd <sup>2</sup>	24, 50	100
<b>12K5HS545</b>	12K	5 Harness Satin	545g/m <sup>2</sup> 16 oz/yd <sup>2</sup>	24, 50	100
<b>12KPW560</b>	12K	Plain Weave	560g/m <sup>2</sup> 16.5 oz/yd <sup>2</sup>	5.5, 12	50
<b>12KPW610</b>	12K	Plain Weave	610g/m <sup>2</sup> 18 oz/yd <sup>2</sup>	24, 50	100
<b>12K4X4CV</b>	12K	4x4 Chevron	630g/m <sup>2</sup> 19 oz/yd <sup>2</sup>	50	100
<b>12K2X2TW670</b>	12K	2x2 Twill	670g/m <sup>2</sup> 20 oz/yd <sup>2</sup>	24, 50	100
<b>12KPW800</b>	12K, 24K	Plain Weave	800g/m <sup>2</sup> 24 oz/yd <sup>2</sup>	24, 50	100
<b>12KUD200</b>	12K	0° Unidirectional	200g/m <sup>2</sup> 6 oz/yd <sup>2</sup>	12, 24, 50	100
<b>12KUD200</b>	12K	90° Unidirectional	200g/m <sup>2</sup> 6 oz/yd <sup>2</sup>	12, 24, 50	100
<b>12KUD300</b>	12K	Unidirectional	300g/m <sup>2</sup> 9 oz/yd <sup>2</sup>	12, 24, 50	100
<b>12KUD370</b>	12K	Unidirectional	370g/m <sup>2</sup> 11 oz/yd <sup>2</sup>	12, 24, 50	100
<b>12KUD405</b>	12K	Unidirectional	400g/m <sup>2</sup> 12 oz/yd <sup>2</sup>	12, 24, 50	100
<b>12KUD610</b>	12K, 24K	Unidirectional	610g/m <sup>2</sup> 18 oz/yd <sup>2</sup>	12, 24, 50	100
<b>12KUD810</b>	12K, 24K	Unidirectional	810g/m <sup>2</sup> 24 oz/yd <sup>2</sup>	12, 24, 50	100

## Typical Fiber Properties

Available Ranges	Tensile Strength	Tensile Modulus	Elongation at Break (%)
	500 ksi – 3450 mpa	33 msi – 228 gpa	1.6
	600 ksi – 4140 mpa	34 msi – 228 gpa	1.8
	700 ksi – 4830 mpa	33 msi – 228 gpa	2.0
	800 ksi – 5520 mpa	40 msi – 276 gpa	2.0

Gateway Composites, LLC warrants its products to be free from manufacturing defects and to meet Gateway Composites' current published properties when applied in accordance with Gateway Composites' directions and tested in accordance with Gateway Composites and ASTM Standards. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use and assumes all risk. Field service, where provided, does not constitute supervisory responsibility. Suggestions made by the Gateway Composites LLC, either verbally or in writing, may be followed, modified or rejected by the owner, engineer or contractor since they, and not Gateway Composites LLC, are responsible for carrying out procedure appropriate to a specific application. Buyer's sole remedy shall be limited to the purchase price or replacement of product and excludes labor or the cost of labor. Any claim for breach of this warranty must be brought within one year of the date of purchase. Gateway Composites LLC assumes no liability for use of this product in a manner to infringe on another's patent.

### Product Consistency

Roll to roll consistency in critical to quality characteristics (CTQs). In-line process controls confirmed by in-house lab testing. Quality policies that result in consistent performance, cosmetics and handling.

### Technical Support

Gateway Composites' products are engineered with the understanding of what is important to the processor and the end user. We can satisfy your needs whether your application is tooling, sporting goods, infrastructure, marine, automotive or industrial.

### Product Customization

Application specific products can be customized to meet mechanical fiber performance requirements, specific area weights, widths and weave constructions.