**DESCRIPTION**

ZOLTEK PX30 Woven Carbon Fabrics tailorability results from controlling the yield on rovings and yarns, and allows for a variety of finished composite thicknesses. The spun yarns have many surface fibrils that protrude in various directions at various lengths from the surface. This fiber loft contributes to high cross-ply tensile and interlaminar shear strengths for 2-D composite materials. Contour conformation without wrinkling is another advantage of spun yarn fabrics. ZOLTEK PX30 materials undergo high temperature carbonization process, involving a long temperature soak time, resulting in a very thermally stable and chemically pure fabric with low oxidation rate.

**MATERIAL OVERVIEW**

<table>
<thead>
<tr>
<th>MATERIAL OVERVIEW</th>
<th>PLAIN WEAVE (PW03)</th>
<th>PLAIN WEAVE (PW06)</th>
<th>SATIN WEAVE (SW08)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areal Weight</td>
<td>115 g/m²</td>
<td>237 g/m²</td>
<td>288 g/m²</td>
</tr>
<tr>
<td>Count (W x F)</td>
<td>175 x 175 yarns/10 cm</td>
<td>113 x 113 yarns/10 cm</td>
<td>160 x 160 yarns/10 cm</td>
</tr>
<tr>
<td>Thickness</td>
<td>406 microns</td>
<td>673 microns</td>
<td>890 microns</td>
</tr>
<tr>
<td>Standard Widths</td>
<td>838 mm</td>
<td>1,067 mm</td>
<td>1,067 mm</td>
</tr>
<tr>
<td>Roll Length*</td>
<td>73 m</td>
<td>36 m</td>
<td>36 m</td>
</tr>
</tbody>
</table>

Electrical Resistivity: 0.0014 ohm-cm (0.00055 ohm-in)
Carbon Content: 99%
Density: 1.75 g/cc (0.063 lb/in³)
Oxidation Rate: 1% per hour at 932 °F (500 °C)

* Due to the manufacturing process, individual roll lengths will vary.

The properties listed in this datasheet do not constitute any warranty or guarantee of values. This information should only be used for the purposes of material selection. Please contact us for more details.

**TYPICAL PACKAGING**

All fabrics are wound on a 3" diameter core, sealed in plastic, and placed in a cardboard box. Listed below are the standard box dimensions. All dimensions are internal measurements.

- 33 inch Fabric Width: 12" x 12" x 37"
- 42 inch Fabric Width: 12" x 12" x 50"

**CERTIFICATION**

ZOLTEK PX30 Fabrics are manufactured in accordance with ZOLTEK’s written and published data. A Certificate of Conformance is provided with each shipment.

**SAFETY**

Obtain, read, and understand the Material Safety Data Sheet (SDS) before use of this or any other ZOLTEK product.