Ultrablade® UD delivers improved laminate stiffness in the main fiber direction and operation at high fiber volume fraction (ie. 57% FVF), resulting in stronger, longer and lighter blades. Ultrablade® UD utilizes Owens Corning premium roving technology to enable blade design optimization.

- Manufactured using the best glass fabric technology at Owens Corning state-of-the-art facilities worldwide.

**FOR WIND BLADE PRODUCTION**

<table>
<thead>
<tr>
<th>Product Benefits</th>
<th>Longer Blades</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Higher modulus fabrics for 20% longer blades.</td>
</tr>
</tbody>
</table>

**Superior Performance**

- • Excellent 90° performance and improved infusion properties.

**Lighter Blades**

- • 5% reduction in blade mass.*

*Spar cap weight reduction and use in skin laminate.

**Application**

**Wind Blade Production**

- • Spar Cap
- • Trailing Edge
Technical Characteristics

ULTRABLADE® UD FABRICS | TYPE | APPLICATIONS
--- | --- | ---
Ultrablade® G3 LTx 1150-1800 | UD 0° | Spar cap and trailing edge

Static Properties of Ultrablade® UD fabrics range (as an example)
Average values from fabric laminate tests (IMA-Dresden, Resin L135/H137, FVF 53-56%).

<table>
<thead>
<tr>
<th>TEST</th>
<th>NORM</th>
<th>STRENGTH (MPA)</th>
<th>STRENGTH (95%/5%) (MPA)</th>
<th>ELONGATION (%)</th>
<th>ELONGATION (95%/5%) (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulus</td>
<td>55% FVF</td>
<td>47000</td>
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<tr>
<td>Tensile 0°</td>
<td>ISO527-5A</td>
<td>1149</td>
<td>1055</td>
<td>2.81</td>
<td>2.38</td>
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<td>Compression 0°</td>
<td>ISO14126</td>
<td>904</td>
<td>792</td>
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<td>ILSS</td>
<td>ISO14130</td>
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<td></td>
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<tr>
<td>Inter Fiber Fracture</td>
<td>ISO527-5B</td>
<td>56</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product Availability
Ultrablade® UD is available in all regions.

Packaging
Available upon request.

Americas
Owens Corning Composite Materials, LLC.
One Owens Corning Parkway
Toledo, Ohio, USA 43659
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