PRODUCTS DESCRIPTION
TenCate Cetex® TWAG is a continuous fiber reinforced thermoplastic (CFRT™) composite laminate. It blends the benefits of a thermoplastic polymer alloy with woven glass fibers in a twill weave for enhanced shapes and performance. The TWAG style laminate is available in a single-layer product. The TWAG laminate is ultrathin, lightweight and resilient for improved energy return.

PRODUCT BENEFITS/FEATURES
- Twill weave of glass fibers
- Bi-directional glass reinforcement
- Lightest weight, thin single layer
- Available in various colors

Composition:
Fibers: Woven glass (330) fiber
Resin: PMMA impact modified proprietary thermoplastic resin

TYPICAL APPLICATIONS
- Footwear
- Skates
- Recreational equipment

SHELF LIFE
Stable indefinitely at 77°F (25°C)
Materials must be dried prior to heating and thermoforming. Please refer to the TCPC Processing Instructions.

Specific Gravity: 1.7 g/cc ± 0.2
Thickness: 0.95mm (± 0.2 mm)
Color: Various
Size: Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Results:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Rigidity</td>
<td>ASTM D790-10</td>
<td>&gt; 40 N/cm</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>ASTM D790-10</td>
<td>&gt;250 Mpa</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>ASTM D790-10</td>
<td>&gt;6000 Mpa</td>
</tr>
</tbody>
</table>

TYPICAL CONSOLIDATION PARAMETERS OR PROCESSING INFO
Recommended Processing Temperatures: Forming 195°C to 200°C (383°F - 392°F) Bonding 55°C to 60°C (131°F - 140°F)

PERFORMANCE versus COST

Revised 5/2017
Cetex® and CFRT® are registered trademarks of Royal TenCate. All data given is based on representative samples of the materials in question. Since the method and circumstances under which these materials are processed and tested are key to their performance, and TenCate Advanced Composites has no assurance of how its customers will use the material, the corporation cannot guarantee these properties.