PRODUCT DATA SHEET

DESCRIPTION
Toray PMC CFRT® (BW-1000) is a reinforced thermoplastic composite laminate. It blends the benefits of a thermoplastic polymer matrix with woven carbon and glass fibers in a basket weave for enhanced performance. The BW-1000 style laminate is available in a single-layer product; carbon in one direction and glass fibers at a 90° orientation to the carbon that is ultra-thin, lightweight, and resilient for improved energy return.

FEATURES
› Basket weave of carbon fibers and glass fibers
› Bi-directional reinforcement
› Lightest weight, thin, single layer
› Available in various colors

PRODUCT TYPE AND COMPOSITION
Carbon fiber content: 30%
Glass fiber content: 30%
Modified PMMA thermoplastic resin: 40%
(Noted: Percentages are by volume and are nominal values)

TYPICAL APPLICATIONS
› Footwear
› Recreational equipment
› Skates

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

MATERIAL PARAMETERS
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.3–1.6 (calculated based upon material volume)</td>
</tr>
<tr>
<td>Thickness</td>
<td>1.0 mm (± 0.2 mm) nominal</td>
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<tr>
<td>Size</td>
<td>Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)</td>
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<tr>
<td>Standard Colors</td>
<td>Silver, Charcoal, and Black</td>
</tr>
<tr>
<td>Forming Temperature</td>
<td>195° to 200°C (383°F–392°F)</td>
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<tr>
<td>Bonding Temperature</td>
<td>55°C to 60°C (131°F–140°F)</td>
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</table>
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