# Toray CFRT® AG-7544 2L



## **Toray Performance Materials Corporation**

#### PRODUCT DATA SHEET

### **DESCRIPTION**

Toray PMC CFRT® (AG-7544 2L) is a reinforced thermoplastic composite laminate. It blends the benefits of a thermoplastic polymer matrix with woven glass fibers in a plain weave for enhanced performance. The AG-7544 2L style laminate is available in a dual-layer product with glass fibers in both directions (0° & 90°). This construction is ultrathin, lightweight, and resilient for improved energy return.

#### **FEATURES**

- Modified plain weave of glass fibers
- Bi-directional glass reinforcement
- > Light weight, thin, multiple layers
- Available in various colors



### PRODUCT TYPE AND COMPOSITION

Glass (330) fiber content: 65% Modified PMMA thermoplastic resin: 35% (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**

Specific Gravity	$1.8 \pm 0.15$ (Calculated based upon material volume)
Thickness	0.96 mm (± 0.2 mm)
Standard Colors	Silver, Charcoal, Black
Size	Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)
Forming Temperature	195°C to 200°C (383°F–392°F)
Bonding Temperature	55°C to 60°C (131°F–140°F)

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Cost (Rated on a scale of 100)

#### **MECHANICAL PROPERTIES**

Properties	Method	Results
Flexural Rigidity	ASTM D790-10	> 101 N-cm*
Flexural Strength	ASTM D790-10	> 247.5 MPa*
Flexural Modulus	ASTM D790-10	> 12750 MPa*

<sup>\*</sup>Performance results are based on 0.96 mm material thickness. Results will vary depending upon material thickness.

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