

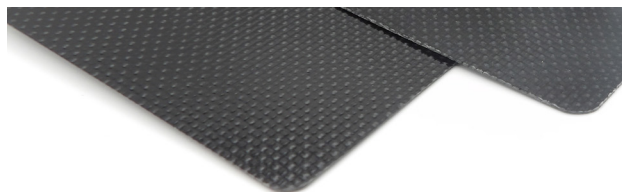
## PRODUCT DATA SHEET

### 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 ultra-thin, 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.

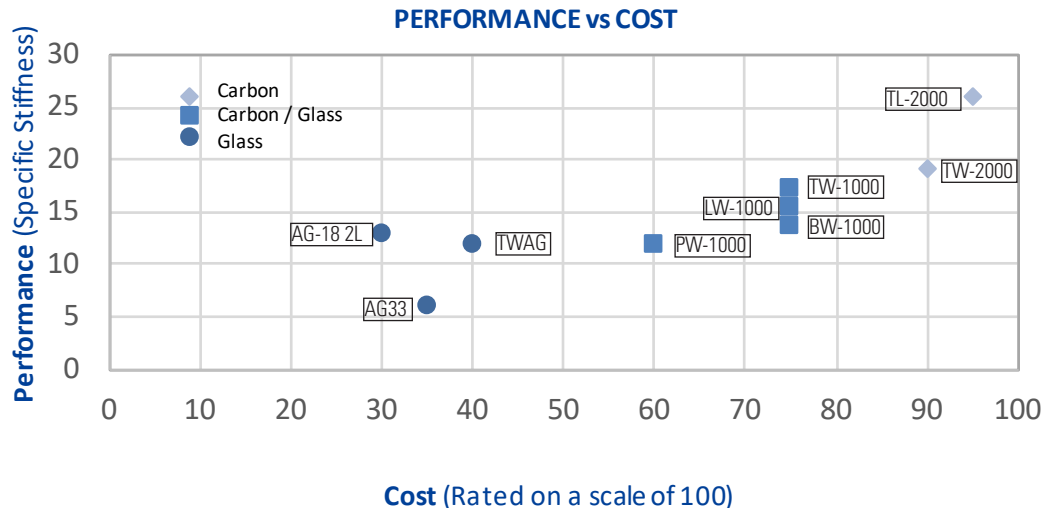
### MATERIAL PARAMETERS

Specific Gravity	1.8 ± 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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## 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*

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