

PRODUCT DATA SHEET

DESCRIPTION

Toray PMC CFRT® (SL2000-PC) is a reinforced thermoplastic composite laminate. It blends the benefits of a polycarbonate based thermoplastic polymer with woven carbon fibers for enhanced performance. The SL2000-PC style laminate is available in a single-layer product that is ultra-thin, lightweight, and resilient for improved energy return.

FEATURES

- › 3K carbon fibers available in a twill or plain weave pattern
- › Bi-directional carbon reinforcement
- › Highest mechanical properties of our woven fabrics
- › Lightweight, thin, single layer
- › Available in natural carbon fiber (black)



PRODUCT TYPE AND COMPOSITION

Carbon fiber content: 59%
 Polycarbonate resin content: 41%
 (Noted: Percentages are by volume and are nominal values)

TYPICAL APPLICATIONS

- › Commercial Products
- › Industrial Products
- › Recreational Products

SHELF LIFE

Stable indefinitely at 25°C (77°F)

MATERIAL PARAMETERS

Specific Gravity	1.38 ± 15%
Thickness	0.30 mm ± 0.1 mm
Size	Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)
Standard Colors	Natural Carbon (Black)

MECHANICAL PROPERTIES

Properties	Condition	Method	Results	
			*(Average based tests using 0.30 mm samples)	
Tensile Strength	RTD	ASTM-D3039	46790 psi*	322 MPa*
T _g (PC Resin)	RTD	DSC	293°F	145°C

Toray(SL2000-PC)_DS_v6_2019-04-24 Page 1/1

© 2019. 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 Toray Performance Materials Corporation has no assurance of how its customers will use the material, the corporation cannot guarantee these properties. Toray®, (Toray) CFRT®, and all other related characters, logos, and trade names are claims and/or registered trademarks of Toray Industries Inc. and/or its subsidiary companies in one or more countries. Use of trademarks, trade names, and other IP rights of Toray Industries Inc. without prior written approval by such is strictly prohibited.