

PRODUCT DATA SHEET

DESCRIPTION

Toray PMC CFRT® (SuperSkin SS-2000) is a reinforced thermoplastic composite laminate. It blends the benefits of a thermoplastic polymer matrix with woven 3K carbon fibers for enhanced shapes and performance. The SuperSkin SS-2000 style laminate is available in a single-layer product that is ultra-thin and lightweight.

FEATURES

- › Plain or twill weave of 3K carbon fibers
- › Lightest weight, thin, single layer
- › Available in natural (carbon) black



PRODUCT TYPE AND COMPOSITION

Carbon (3K) fiber content: 12%
Thermoplastic polyurethane resin: 88%
(Noted: Percentages are by volume and are nominal values)

TYPICAL APPLICATIONS

- › Footwear
- › 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	1.27 g/cc
Thickness	0.6 mm (0.024 inches) nominal
Size	Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)
Standard Colors	Natural Black (carbon)
Forming Temperature	N/A
Bonding Temperature	55°C to 60°C (131°F–140°F)

MECHANICAL PROPERTIES

Properties	Method	Results	
Tensile Strength	ASTM D790-10	512 ksi	3438 MPa
Tensile Modulus	ASTM D790-10	32 Msi	220 GPa

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