

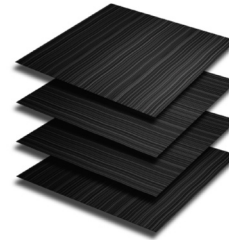
PRODUCT DATA SHEET

DESCRIPTION

Toray PMC CFRT® (XTS 3L & 4L) are reinforced thermoplastic composite laminates. They blend the benefits of a thermoplastic polymer matrix with uni-directional glass fibers for enhanced performance. The XTS style laminate is offered in 3-layer (0°/90°/0° fiber orientations) and 4-layer (0°/90°/90°/0° fiber orientations) construction that is ultra-thin, lightweight, and resilient for improved energy return.

FEATURES

- › Uni-directional glass (330) fibers
- › Lightest weight, thin, multiple layers
- › Available in black



PRODUCT TYPE AND COMPOSITION

Uni-directional glass fiber content:
42% (3 layer) and 42% (4 layer)
Resin: ABS polymer blend, polymer or resin: 58%
(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	1.40 g/cc ± 0.15 (calculated based upon material volume)	
Thickness	3 layer	0.95 mm (± 0.25 mm)
	4 layer	1.25 mm (± 0.25 mm)
Size	Cut to customer specifications from sheet of 91 x 122 cm (36 x 48 inches)	
Standard Color	Black	
Forming Temperature	195° to 200°C (383°F–392°F)	
Bonding Temperature	55°C to 60°C (131°F–140°F)	

MECHANICAL PROPERTIES

Properties	Condition	Method	Results 3 Layer	Results 4 Layer
Flexural Rigidity	RTL	ASTM D790-10	> 126 N-cm	> 118 N-cm
Flexural Strength	RTL	ASTM D790-10	> 479 MPa	> 398 MPa
Flexural Modulus	RTL	ASTM D790-10	> 18 GPa	> 116 GPa

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