

CIT CF100 T800S PW ER450G 42% 100CM

PROPERTIES

<i>Dry Fabric:</i>	<i>Unit</i>	<i>Typical Values</i>
Weaving Style	-	Plain Weave
Fiber Type	-	T800S
Fiber Density	g/cm ³	1.80
Warp	threads/cm	3.1
Weft	threads/cm	3.1
Areal Weight	g/m ²	99.9 (± 5%)
<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	Medium
Flow	%	27
Out life @ 23°C	days	45
Storage life @ -18°C	months	12
Nominal Area weight	g/m ²	172
Nominal Resin content	Wt %	42 (± 3)
Volatile content	Wt %	< 1
Nominal Width	mm	1000
Cured Ply Thickness *	mm	0.114

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @135° for 120 minutes in autoclave. External pressure applied: 6 bar).

Details provided in this document have been obtained from carefully controlled samples; data are an overview of this product and should not be intended as technical specification.

Because the properties of this product can be significantly affected by the fabrication and testing techniques employed and since CIT does not control the conditions under which its products are tested and used, CIT cannot guarantee that the properties provided will be obtained with other processes and equipment.

CIT has the right to change any data or information when deemed appropriate.

Cured Material Property	Test method	Units	Actual Values
Tensile Modulus 0°	ASTM D3039	GPa	66.0
Tensile Strength 0°		MPa	1441
Poisson's Ratio 0°		-	0.043
Elongation at failure 0°		%	2.03
Tensile Modulus 90°	ASTM D3039	GPa	65.0
Tensile Strength 90°		MPa	1334
Poisson's Ratio 90°		-	0.047
Elongation at failure 90°		%	1.97
Compressive Modulus 0°	ASTM D6641	GPa	63.9
Compressive Modulus 90°		GPa	57.7
Compressive Strength 0°	SACMA SRM 1R94	MPa	623
Compressive Strength 90°		MPa	600
In Plane Shear Modulus	ASTM D3518	GPa	3.46
In Plane Shear Strength @ failure		MPa	96.3
In Plane Shear Strength @ 5% strain		MPa	65.1
Inter-laminar Shear Strength	ISO 14130	MPa	71.5

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