

CIT CF291 24K T800 NG T2/2 ER450G 40% 125CM

PROPERTIES

<i>Dry Fabric:</i>	<i>Unit</i>	<i>Typical Values</i>
Weaving Style	-	Twill 2/2
Fiber Type	-	T800S 24K
Fiber Density	g/cm ³	1.80
Warp	threads/cm	1.40
Weft	threads/cm	1.40
Areal Weight	g/m ²	288 (±4%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	Medium – High
Flow	%	7 (± 5%)
Out Life @ 23°C	days	45
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m ²	480
Nominal Resin Content	Wt %	40% (± 3%)
Volatile Content	Wt %	< 1
Nominal Width	mm	1250
Laminate Density*	g/cm ³	1.52
Cured Ply Thickness*	mm	0.316

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @ 135°C 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.

<i>Cured Material Property</i>	<i>Test method</i>	<i>Units</i>	<i>Actual Value</i>
0° Tensile modulus	ASTM D3039	GPa	72.6
0° Tensile strength		MPa	1276
0° Poisson's ratio		-	0.03
0° Elongation at failure		%	1.49
90° Tensile modulus	ASTM D3039	GPa	70.4
90° Tensile strength		MPa	1254
90° Poisson's ratio		-	0.04
90° Elongation at failure		%	1.52
0° Compressive modulus	SACMA SRM 1R-94	GPa	64.7
0° Compressive strength		MPa	723
90° Compressive modulus	SACMA SRM 1R-94	GPa	62.6
90° Compressive strength		MPa	683
In-plane shear modulus	ASTM D3518	GPa	3.58
In-plane shear strength @ failure		MPa	92.7
In-plane shear strength @ 5%		MPa	77.3
Inter-laminar shear strength	ASTM D2344	MPa	68.7

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