

## CIT CC370 24K T800 T2/2 #2573 38% 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 <sup>3</sup>	1.80
Warp	threads/cm	1.80
Weft	threads/cm	1.80
Areal Weight	g/m <sup>2</sup>	370 (±4%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	Medium
Flow	%	5 (± 5%)
Out Life @ 23°C	days	30
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m <sup>2</sup>	597
Nominal Resin Content	Wt %	38% (± 3%)
Volatile Content	Wt %	< 1
Nominal Width	mm	1250
Laminate Density*	g/cm <sup>3</sup>	1.50
Cured Ply Thickness*	mm	0.398

(\*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @ 130°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.*

<b><i>Cured Material Property</i></b>	<b><i>Test method</i></b>	<b><i>Units</i></b>	<b><i>Actual Value</i></b>
0° Tensile modulus		GPa	74.3
0° Tensile strength	ASTM D3039	MPa	1419
0° Poisson's ratio		-	0.06
0° Elongation at failure		%	1.91
90° Tensile modulus		GPa	73.4
90° Tensile strength	ASTM D3039	MPa	1482
90° Poisson's ratio		-	0.06
90° Elongation at failure		%	1.95
0° Compressive modulus	SACMA	GPa	69.2
0° Compressive strength	SRM 1R-94	MPa	635
90° Compressive modulus	SACMA	GPa	64.4
90° Compressive strength	SRM 1R-94	MPa	672
In-plane shear modulus		GPa	3.80
In-plane shear strength @ failure	ASTM D3518	MPa	105
In-plane shear strength @ 5%		MPa	62.3
Inter-laminar shear strength	ASTM D2344	MPa	63.3
G <sub>1C</sub> Fracture Toughness	ASTM D5528	J/m <sup>2</sup>	2304

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