

CIT CC204 6K T800H T2/2 ER450 38% 125CM

PROPERTIES

<i>Dry Fabric:</i>	<i>Unit</i>	<i>Typical Values</i>
Weaving Style	-	Twill 2/2
Fiber Type	-	T800H 6K
Fiber Density	g/cm ³	1.81
Warp	threads/cm	4.50
Weft	threads/cm	4.50
Areal Weight	g/m ²	199 (±4%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	Medium
Flow	%	11 (± 5%)
Out Life @ 23°C	days	45
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m ²	321
Nominal Resin Content	Wt %	38% (± 3%)
Volatile Content	Wt %	< 1
Nominal Width	mm	1250
Laminate Density*	g/cm ³	1.53
Cured Ply Thickness*	mm	0.209

(*) 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.

Cured Material Property	Test method	Units	Actual Value
0° Tensile modulus		GPa	73.9
0° Tensile strength	ASTM D3039	MPa	1106
0° Poisson's ratio		-	0.07
0° Elongation at failure		%	1.39
90° Tensile modulus		GPa	71.5
90° Tensile strength	ASTM D3039	MPa	969
90° Poisson's ratio		-	0.06
90° Elongation at failure		%	1.27
0° Compressive modulus		GPa	70.2
0° Compressive strength	SACMA SRM 1R-94	MPa	776
0° Elongation at failure		%	1.35
90° Compressive modulus		GPa	68.8
90° Compressive strength	SACMA SRM 1R-94	MPa	738
90° Elongation at failure		%	1.27
In-plane shear modulus		GPa	4.03
In-plane shear strength @ failure	ASTM D3518	MPa	117
In-plane shear strength @ 5%		MPa	64.5
Inter-laminar shear strength	ASTM D2344	MPa	79.8

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