

CIT CC200 3K T300 PW ET445 43% 125CM

PROPERTIES

<i>Dry Fabric:</i>	<i>Unit</i>	<i>Typical Values</i>
Weaving Style	-	Plain
Fiber Type	-	T300
Fiber Density	g/cm ³	1.76
Warp	threads/cm	4.90
Weft	threads/cm	4.90
Areal Weight	g/m ²	196 (±2%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	Medium
Flow	%	13 (± 5%)
Out Life @ 23°C	days	30
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m ²	344
Nominal Resin Content	Wt %	43% (± 3%)
Volatile Content	Wt %	< 1
Nominal Width	mm	1250
Laminate Density*	g/cm ³	1.47
Cured Ply Thickness*	mm	0.235

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @125°C for 30 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>Estimated Value</i>
0° Tensile modulus	ASTM D3039	GPa	52.2
0° Tensile strength		MPa	635
0° Poisson's ratio		-	0.06
0° Elongation at failure		%	1.13
90° Tensile modulus	ASTM D3039	GPa	51.8
90° Tensile strength		MPa	612
90° Poisson's ratio		-	0.08
90° Elongation at failure		%	1.17
0° Compressive modulus	SACMA	GPa	50.2
0° Compressive strength	SRM 1R-94	MPa	615
90° Compressive modulus	SACMA	GPa	49.2
90° Compressive strength	SRM 1R-94	MPa	575
In-plane shear modulus	ASTM D3518	GPa	3.24
In-plane shear strength @ failure		MPa	113
In-plane shear strength @ 5%		MPa	67.1
Inter-laminar shear strength	ASTM D2344	MPa	72.0

(*) Estimated values

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