

CIT CC631 12K T700 T2/2 FF563NERA 35% 127CM

PROPERTIES

<i>Dry Fabric:</i>	<i>Unit</i>	<i>Typical Values</i>
Weaving Style	-	Twill 2/2
Fiber Type	-	T700SC 12K
Fiber Density	g/cm ³	1.80
Warp	threads/cm	3.90
Weft	threads/cm	3.90
Areal Weight	g/m ²	630 (±4%)

<i>Uncured Prepreg:</i>	<i>Unit</i>	<i>Typical Values</i>
Tack	-	High
Out Life @ 23°C	days	60
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m ²	969
Nominal Resin Content	Wt %	35% (± 3%)
Volatile Content	Wt %	<6
Nominal Width	mm	1270
Laminate Density*	g/cm ³	1.53
Cured Ply Thickness*	mm	0.633

(* The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @150°C for 60 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 Values</i>
0° Tensile modulus		GPa	57.7
0° Tensile strength	ASTM D3039	MPa	555
0° Poisson's ratio		-	0.04
0° Elongation at failure		%	1.26
90° Tensile modulus		GPa	60.2
90° Tensile strength	ASTM D3039	MPa	707
90° Poisson's ratio		-	0.07
90° Elongation at failure		%	1.54
0° Compressive modulus	ASTM D6641	GPa	58.3
90° Compressive modulus		GPa	58.8
0° Compressive strength	SACMA	MPa	368
90° Compressive strength	SRM 1R-94	MPa	383
In-plane shear modulus		GPa	3.84
In-plane shear strength @ failure	ASTM D3518	MPa	53.3
In-plane shear strength @ 5%		MPa	42.6
Inter-laminar shear strength	ISO 14130	MPa	38.4

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