Composite Materials (Italy) s.r.l. – Socio Unico
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CIT CC631 12K T700S T2/2 ET445S 37% 127CM

PROPERTIES

Dry Fabric:	*Unit*	*Typical Values*
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%)

Uncured Prepreg:	*Unit*	*Typical Values*
Tack	-	High
Flow	%	3.70 (± 5%)
Out Life @ 23°C	days	30
Storage Life @ -18°C	months	12
Nominal Areal Weight	g/m^2	1000
Nominal Resin Content	Wt %	37% (± 3%)
Volatile Content	Wt %	< 1
Nominal Width	mm	1270
Laminate Density*	g/cm^3	1.52
Cured Ply Thickness*	mm	0.658

(*) 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).

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Cured Material Property	*Test method*	*Units*	*Actual Value*
0° Tensile modulus	ASTM D3039	GPa	61.4
0° Tensile strength		MPa	874
0° Poisson's ratio		-	0.08
0° Elongation at failure		%	1.55
90° Tensile modulus	ASTM D3039	GPa	59.9
90° Tensile strength		MPa	788
90° Poisson's ratio		-	0.06
90° Elongation at failure		%	1.44
0° Compressive modulus	ASTM D6641	GPa	57.2
90° Compressive modulus		GPa	56.0
0° Compressive strength	SACMA SRM 1R-94	MPa	517
90° Compressive strength		MPa	524
In-plane shear modulus	ASTM D3518	GPa	3.63
In-plane shear strength @ failure		MPa	73.7
In-plane shear strength @ 5%		MPa	54.5
Inter-laminar shear strength	ASTM D2344	MPa	63.4

(*) 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).