Composite Materials (Italy) s.r.l. – Socio Unico
Via Quasimodo, 33 – 20025 Legnano (MI) ITALY
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CIT CC370 24K T800 T2/2 #2573 38% 125CM

PROPERTIES

Dry Fabric:	*Unit*	*Typical Values*
Weaving Style	-	Twill 2/2
Fiber Type	-	T800S 24K
Fiber Density	g/cm^3	1.80
Warp	threads/cm	1.80
Weft	threads/cm	1.80
Areal Weight	g/m^2	370 (±4%)

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

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

(*) The tests were carried out @ 23°C and 60% R.H. on specimens cured in std conditions (dwell @135° for 120 minutes in autoclave. External pressure applied: 6 bar).