Composite Materials (Italy) s.r.l. – Socio Unico
Via Quasimodo, 33 – 20025 Legnano (MI) ITALY
Phone: +39 0331.467.555
Fax: +39 0331.467.777
E-mail: info@composite-materials.it
www.composite-materials.it

CIT HM124 12K M46J ER450G 36% 60CM

PROPERTIES

Dry Tape:	***Unit***	***Typical Values***
Carbon Fiber	-	M46J 12K
Fiber Density	-	1.84
Areal Weight	g/cm^3	124 (± 4%)
Uncured Prepreg:	***Unit***	***Typical Values***
Tack	-	Medium
Flow	%	6 (± 5%)
Out life @ 23°C	days	45
Storage life @ -18°C	months	12
Nominal area weight	g/m^2	194
Nominal resin content	Wt %	36 (± 3%)
Volatile content	Wt %	< 1
Nominal width	mm	600
Laminate density*	g/cm^3	1.56
Cured ply thickness*	mm	0.124

(*) 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).

Composite Materials (Italy) s.r.l. – Socio Unico
Via Quasimodo, 33 – 20025 Legnano (MI) ITALY
Phone: +39 0331.467.555
Fax: +39 0331.467.777
E-mail: info@composite-materials.it
www.composite-materials.it

Cured Material Property	***Test method***	***Units***	***Actual Value***
0° Tensile modulus	ASTM D3039	GPa	217
0° Tensile strength		MPa	1784
0° Poisson's ratio		-	0.313
0° Elongation at failure		%	0.67
90° Tensile modulus	ASTM D3039	GPa	6.68
90° Tensile strength		MPa	31.5
90° Poisson's ratio		-	0.014
90° Elongation at failure		%	0.48
0° Compressive modulus	SACMA SRM 1R-94	GPa	199
0° Compressive strength		MPa	873
0° Elongation at failure		%	0.44
90° Compressive modulus	SACMA SRM 1R-94	GPa	7.08
90° Compressive strength		MPa	238
90° Elongation at failure		%	3.81
In Plane Shear modulus	ASTM D3518	GPa	4.08
In Plane Shear strength @ failure		MPa	75.4
Inter-laminar Shear Strength	ASTM D2344	MPa	81.6

(*) 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).