Composite Materials (Italy) s.r.l. – Socio Unico
Via Quasimodo, 33 – 20025 Legnano (MI) ITALY
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CIT CF46 12K HS40 PW ER450G 45% 100CM

PROPERTIES

Dry Fabric:	***Unit***	***Typical Values***
Weaving Style	-	Plain Weave
Fiber Type	-	HS40
Fiber Density	g/cm^3	1.85
Warp	threads/cm	3.1
Weft	threads/cm	3.1
Areal Weight	g/m^2	46.4 (± 5%)
Uncured Prepreg:	***Unit***	***Typical Values***
Tack	-	Medium
Flow	%	23 (± 5%)
Out life @ 23°C	days	45
Storage life @ -18°C	months	12
Nominal Area weight	g/m^2	84
Nominal Resin content	Wt %	45 (± 3)
Volatile content	Wt %	< 1
Nominal Width	mm	1000
Cured Ply Thickness *	mm	0.056

(*) 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).

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Cured Material Property	***Test method***	***Units***	***Nominal Values (Vf 44.8%)***
Tensile Modulus 0°	ASTM D3039	GPa	95.3
Tensile Strength 0°		MPa	870
Poisson's Ratio 0°		-	0.035
Elongation at failure 0°		%	0.87
Tensile Modulus 90°	ASTM D3039	GPa	94.0
Tensile Strength 90°		MPa	855
Poisson's Ratio 90°		-	0.033
Elongation at failure 90°		%	0.85
Compressive Modulus 0°	ASTM D6641	GPa	87.9
Compressive Modulus 90°		GPa	86.2
Compressive Strength 0°	SACMA SRM 1R-94	MPa	400
Compressive Strength 90°		MPa	390
In Plane Shear Modulus	ASTM D3518	GPa	2.75
In Plane Shear Strength @ failure		MPa	69.0
In Plane Shear Strength @ 5% strain		MPa	115
Inter-laminar Shear Strength 0°	ISO 14130	MPa	69.7