



Hi-tech Material Co., Ltd

DATA SHEET

Product name: carbon carbon composite/ CFC/ CC

Type: 3D / 4D

Main application: --

ITEM	UNIT	direction	Standard	tested
Bulk density	g/cm ³	-	≥1.80	1.85
tensile strength	MPa	XY	≥60	169
		Z	≥30	95
tensile modulus	GPa	XY	≥50	59.9
		Z	≥30	35.8
bending strength	MPa	XY	≥80	140
		Z	≥40	80
Compressive strenght	MPa	XY	≥85	120
		Z	≥85	282
shear strength	MPa	XY	≥30	65
		Z	≥25	49
Thermal conductivity	W/mk	XY	≥40	62.2
		Z	≥20	25.1
C.T.E (1000° C)	1/° C×10 ⁻⁶	XY	≤2.0	1.1
		Z	≥3.0	1.14
Graphitizing	%	-	≥60.0	75.5
Specific heat capacity	×10 ³ J(Kg. ° C)	-	≥1.2	1.53

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