

Elemental Composition of Materials

Material Name	Elemental Composition				Density of material
	element	A	Z	element fraction by number	(g/cc)
MYLAR	H	1.00797	1	0.3636	1.39
	C	12.01115	6	0.4545	
	O	15.9994	8	0.1818	

Material Name	Elemental Composition				Density of material
	element	A	Z	element fraction by number	(g/cc)
KAPTON	H	1.00797	1	0.2564	1.43
	C	12.01115	6	0.5641	
	N	14.0067	7	0.0513	
	O	15.9994	8	0.1282	

Material Name	Elemental Composition				Density of material
	element	A	Z	element fraction by number	(g/cc)
EPOXY	H	1.00797	1	0.092	1.1
	C	12.01115	6	0.545	
	O	15.9994	8	0.363	

Material Name	Elemental Composition				Density of material
	element	A	Z	element fraction by number	(g/cc)
KEVLAR	H	1.00797	1	0.357143	1.44
also NOMEX	C	12.01115	6	0.500000	
	N	14.0067	7	0.071429	
	O	15.9994	8	0.071429	

Material Name	Elemental Composition				Density of material
	element	A	Z	element fraction by number	(g/cc)
Honeycomb Wall Material	H	1.00797	1	0.258636	0.85
	C	12.01115	6	0.516818	
(37% EPOXY,	N	14.0067	7	0.045000	
63% NOMEX)	O	15.9994	8	0.179545	

NOMINAL DENSITY OF HONEYCOMB STRUCTURE IS

0.03210 g/cc

Material Name	Elemental Composition			element fraction by number	Density of material
	element	A	Z		(g/cc)
Graphite Composite (37% EPOXY, 63% Carbon?)	H	1.00797	1	0.034040	1.8
	C	12.01115	6	0.831650	
	O	15.9994	8	0.134310	

Material Name	Elemental Composition			element fraction by number	Density of material
	element	A	Z		(g/cc)
Silicon Dioxide	O	15.9994	8	0.667000	2.2
	Si	28.0855	14	0.333000	

Material Name	Elemental Composition			element fraction by number	Density of material
	element	A	Z		(g/cc)
LLumalloy?					