



## Synthane-Taylor Laminates

### Taconic Synthane-Taylor UL file information - March 5, 2004

All products formerly listed in UL File number **QMTS2.E111805** have been moved to the Taconic UL File **QMTS2.E121087**. This consolidation did not change any of the parameters listed in the file or any of the product designators. This file covers all PWB manufacturers with former Synthane-Taylor, Perception Laminates, or Teradyne Synthane-Taylor listings for these products.

Below is a partial listing from the Taconic UL file for the Taconic Synthane-Taylor FR-4 materials.

Mtl Dsg	Col*	ANSI Type	Min Thk		TI		UL94 Flame Class	HWI	HAI	HVTR	CTI	Meets UL746E DSR	
			In.	(mm)	Elec	Mech							
Industrial laminates, furnished in sheet, rod or tube form.													
FB600\$	NC	FR-4	0.015	(0.38)	130	130	94V-0	0	0	-	-	-	
FB650\$			0.025	(0.64)	130	140	94V-0	0	3	1	-	-	
			0.055	(1.40)	130	140	94V-0	0	2	1	3	-	
Mtl Dsg		ANSI Grade	Col	Min Thk		TI		HWI	HAI	HVTR	CTI	Meets UL746E DSR	
Lam	Prepreg			In.	(Mics)	Elec	Mech						
Ultrathin industrial laminates, furnished in sheet form, for use in multilayer printed wiring boards where the thickness is built-up to 0.015 inch (0.38).#													
FB650\$		EF650\$		FR-4		NC	0.002		(51)		130	140	
Clad	Base Mtl		Clad Cond Thk				Max		Temp C	Time Secs	UL94 Flame Class	Max Oper Temp	
	Mtl Dsg	ANSI Type	Thk In.	Min (Mils)	Max (Mils)	Dia In.	Area (mm)	Sold Lts					
Metal clad industrial laminates for use in printed wiring boards, furnished in the form of sheets, with copper cladding on one or both sides.													
FB650\$	FR-4	0.025	(0.64)	0.17	(5)	3.9	(105)	2.0@	(50.8)	288	30	94V-0	130
FB650\$	FR-4	0.015	(0.38)	0.17	(5)	3.9	(105)	2.0@	(50.8)	288	30	94V-0	120
FB650\$	FR-4	0.015	(0.38)	0.17	(5)	3.9	(105)	1.0	(25.4)	288	30	94V-0	130
Mtl Dsg		Min		Thk		Max Area		Sold Lts		UL94 Flame Class	Max Oper Temp		
Metal Clad Lam	Prepreg	Thk In. (mm)	Min Mils (Mics)	Max Mils (Mics)	Diam In. (mm)	Temp C	Time Sec						
Ultrathin industrial laminates with copper on one or both sides and prepreps for use in multilayer printed wiring board where the thickness is built-up to 0.025 in. (0.64mm).#.													
FB650\$		EF650\$		0.002		0.17		3.9	2.0@	288	30	94V-0	130
				(0.05)		(5)		(105)	(50.8)				
Ultrathin industrial laminates with copper on one or both sides and prepreps for use in multilayer printed wiring boards where the thickness is built-up to 0.015 in. (0.38mm).#.													
FB650\$		EF650\$		0.002		0.17		3.9	2.0@	288	30	94V-0	120
				(0.05)		(5)		(105)	(50.8)				
FB650\$		EF650\$		0.002		0.17		3.9	1.0	288	30	94V-0	130
				(0.05)		(5)		(105)	(25.4)				

\$ - The numeric may be followed by one alpha designator, except C.

# - The relative thermal index of the build-ups is limited to the minimum temperature index of any component.

@ - The 2.0 in. (50.8mm) maximum area may be considered representative of larger areas, not exceeding a printed wiring board fabricators limitations.

\* - Color designation: NC Natural (No Color).

Marking: Company name and material designation on material, container or wrapper.

The entire Taconic listing can be found by searching Certifications for the above file number on the UL website: <http://www.ul.com>.

For any further information, please contact Taconic at 518-658-3202 or 800-833-1805 or E-mail [tonys@4taconic.com](mailto:tonys@4taconic.com).