

FR4 List of Materials

Core- to nominal thicknesses references



Germany

		Elite Materials EM-370(5) (TG 150)					
Nominal	IL 2L	18	35	50	70	105	
Core							
200	✓	200	200		200	200	
350	✓	350	350		350	350	
510	✓	510	510		510	510	
610	✓		610				
710	✓ ✓	710	710		710	710	
1000	✓ ✓	964	930		860		
1200	✓ ✓	1164	1130		1060		
1500	✓	1464				1290	
2000	✓	1964					
2400	✓	2364	2330				

Prepregs (type) 68 (1080), 110 (2116), 188 (7628)

		NanYa NPG-170 (IG 170)				
Nominal		18	35	50	70	105
Core						
200			200		200	
350			350		350	
510					510	
710			710		710	
964		964	930			
1130			1130			
1430		1464	1430	1400		
1964		1964				

Prepregs (type) 68 (1080), 110 (2116), 188 (7628)

		Panasonic / NanYa (IG 130)				
Nominal	IL 2L	18	35	50	70	105
Core						
1500	✓	1464 ²	1430 ²	1400 ²	1360 ^{2,3}	1290 ³
2000	✓	1964 ^{2,3}	1930 ²	1900 ²	1860 ^{2,3}	1790 ³
2400	✓	2364 ³		2300 ²		
3200	✓	3164 ³	3130 ²	3100 ²		

² Panasonic MC-100EX
³ NanYa FR4-86-UV

China

		KingBoard KB6160 (TG 130)			
Nominal	IL 2L	18	35	70	105
Core					
150	✓ *				
200	✓ *	164	130		
250	✓ *				
300	✓ *	264	230		
400	✓ *	364	330		
500	✓ ✓	464			
600	✓ ✓		530		
700	✓ ✓	664	630		
800	✓ ✓	764			
900	✓ ✓	864			
1000	✓ ✓	964	930		
1100	✓ ✓	1064			
1200	✓ ✓		1130		
1500	* ✓	1464	1430		
2000	* ✓		1930		

Prepregs (type) 75 (1080), 125 (2116)
200 (7628)

		KingBoard KB6165 (IG 150)			
Nominal		18	35	70	105
Core					
150		150			
130			130		
250			250		
230			230	160	
364		364	330	260	
430			430	360	
530			530	460	
630			630		
764		764	730	660	
830			830	760	
964		964			
1064		1064			
1164		1164	1130		
1464		1464	1430		

Prepregs (type) 75 (1080), 125 (2116)
150 (1506), 200 (7628)

		Shengyi S1000-2 (IG 170)			
Nominal		18	35	70	105
Core					
130					
130			130		
250			250		
230			230	160	90
364		364		260	190
360				360	290
530			530		
630			630		
764		764	730		
1064					
1164		1164	1130		
1464		1464	1430		

Prepregs (type) 75/80 (1080), 110/120 (2116)
150 (1506), 180/200 (7628)

All dimensions in µm

* : on request

IL : inner layer for multilayer

2L : 2-layer material

Other materials on request