

TABLE 5. Properties of several base material types.

PRODUCT	DESCRIPTION	GLASS TRANSITION TEMP., °C	DECOMP. TEMP., °C	% EXPANSION, 50-260°C (40% RC)	DK @ 2 GHz	DK @ 5 GHz	DF @ 2 GHz	DF @ 5 GHz
A	Conventional 140°C Tg FR-4	140	320	4.2	3.9	3.8	0.021	0.022
B	Improved Mid-Tg FR-4	150	335	3.4	4.0	3.9	0.026	0.027
C	Conventional High-Tg FR-4	175	310	3.5	3.8	3.7	0.020	0.021
D	Improved High-Tg FR-4	175	335	2.8	3.9	3.8	0.026	0.026
E	Non-Dicy, Non-Phenolic	200	370	2.8	3.7	3.7	0.013	0.014