



Materials commonly used for Double Sided PCBs

Item	Units	IT-140TC	IGAV FR95	Duraver E-Cu 104	KB-6160
Manufacturer	-	ITEQ	Aismalibar	Isola	KingBoard
Material	-	FR-4	FR-4	FR-4	FR-4
Volume Resistivity					
After moisture resistance		1,0 x 10 ⁴	1,0 x 10 ⁷	8,0 x 10 ⁸	1,0 x 10 ⁸
At elevated temperature E-24/125	MΩ	1,0 x 10 ³	1,0 x 10 ⁷	8,0 x 10 ⁶	
Surface Resistivity					
After moisture resistance		1,0 x 10 ⁴	1,0 x 10 ⁶	4,0 x 10 ⁶	1,0 x 10 ⁶
At elevated temperature E-24/125	MΩ	1,0 x 10 ³	1,0 x 10 ⁵	7,0 x 10 ⁴	
Moisture Absorption	%	< 0.8	0,19	0,16	0,21
Dielectric Breakdown	kV	40	45	45	-
Permittivity @ 1 MHz	-	4,7	4,8	4,6 - 4,9	-
Loss Tangent @ 1 MHz	-	0,017	0,057	0,019	0,022
Flexural Strength					
Length direction		415	550	600	565
Cross direction	N/mm ²	345	450	480	416
Flexural Strength at Elevated Temperature	N/mm ²	-	-	-	-
Arc Resistance	sg	60	120	-	125
Thermal Stress for 10 sg at 288°C					
Unetched		Conforme	60 sg	≥ 10 sg	180 sg
Etched	-	Conforme		≥ 10 sg	
Electric Strength	kV/mm	-	-	-	-
Flammability	-	V-0	V-0	V-0	V-0
Glass Transition Temperature	°C	135	135	135	135
Decomposition Temperature	°C	305	-	-	305
CAF Resistance	-	AABUS	-	-	-
Comparative Tracking Index (CTI)	Volts	Class 3 (179 - 249)	Class 3 (179 - 249)	Class 3 (179 - 249)	Class 3 (179 - 249)

REMARKS

Information according to manufacturer's Technical Data Sheets