



Dream Is the Challenger's

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### 1. Properties of G10 Halogen Free Epoxy

Characteristic	Unit	Condition	Typical Values	Spec
Volume Resistivity	MΩ ~ cm	C-96/35/90	6.1X10 <sup>7</sup>	≥10 <sup>6</sup>
Surface Resistivity	MΩ	C-96/35/90	2.1X10 <sup>5</sup>	≥10 <sup>4</sup>
Arc Resistance	Sec	D-48/50+D-0.5/23	95	≥60
Peel Strength (THE 1OZ)	Lb/in	288°CX10 Sec solder floating	8.2	≥6

### 2. Properties of FR 4 Epoxy

Characteristic	Unit	Condition	Typical Values	Spec
Volume Resistivity	MΩ ~ cm	C-96/35/90	6.8X10 <sup>8</sup>	≥10 <sup>5</sup>
Surface Resistivity	MΩ	C-96/35/90	2.5X10 <sup>6</sup>	≥10 <sup>4</sup>
Arc Resistance	Sec	D-48/50+D-0.5/23	120	≥60
Flammability	-	C-24/23/50+E-24/125	94 V-0	94 V-0
Peel Strength (THE 1OZ)	Lb/in	288°CX10 Sec solder floating	8	≥6

### 3. Properties of G11 Halogen Free Epoxy

Characteristic	Unit	Condition	Typical Values	Spec
Volume Resistivity	MΩ ~ cm	C-96/35/90	6.5X10 <sup>8</sup>	≥10 <sup>5</sup>
Surface Resistivity	MΩ	C-96/35/90	2.3X10 <sup>6</sup>	≥10 <sup>4</sup>
Arc Resistance	Sec	D-48/50+D-0.5/23	100	≥60
Flammability	-	C-24/23/50+E-24/125	HB	HB