Copper Clad Laminates

ZD-68, ZD 95

Description: Glass-paper epoxy composite. It can be processed by both punching and drilling and is especially suitable for STH (Silver Through Hole). It’s excellent thermal resistance makes it especially suitable for lead-free processes, carbon ink printing, hot air leveling and Ni/Au finishes.

Moreover, it is listed by UL 94 V-0 (E222366).
# Copper clad laminates

## Properties

<table>
<thead>
<tr>
<th>NO</th>
<th>Item</th>
<th>Unit</th>
<th>Index</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>ZD-68(G)F</td>
<td>ZD-95(G)F</td>
</tr>
<tr>
<td>1</td>
<td>Peel Strength, A. After Thermal Stress, B. At 105°C</td>
<td>N/m</td>
<td>1.25</td>
<td>1.05</td>
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<tr>
<td></td>
<td></td>
<td>m</td>
<td>0.80</td>
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<tr>
<td>2</td>
<td>Volume Resistivity, A. C-96/35/90, B. At High Temperature E-24/125</td>
<td>MΩ*</td>
<td>10(^4)</td>
<td>10(^6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cm</td>
<td>-</td>
<td>10(^3)</td>
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<tr>
<td>3</td>
<td>Surface Resistivity &gt; A. C-96/35/90, B. At High Temperature E-24/125</td>
<td>MΩ</td>
<td>10(^3)</td>
<td>10(^6)</td>
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<td>-</td>
<td>10(^3)</td>
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<td>4</td>
<td>Water Absorption</td>
<td>%</td>
<td>1.0</td>
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<tr>
<td>5</td>
<td>Dielectric Breakdown</td>
<td>Kv</td>
<td>30</td>
<td>40</td>
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<tr>
<td>6</td>
<td>Permittivity, 1 MHz</td>
<td>-</td>
<td>4.8</td>
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<tr>
<td>7</td>
<td>Dissipation Factor, 1MHz</td>
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<td>0.035</td>
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</tbody>
</table>
**ZD – 68(G)F, ZD-95(G)F**

**Copper clad laminates**

<table>
<thead>
<tr>
<th></th>
<th>Flexural Strength, A Lengthwise</th>
<th>MPa</th>
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<tbody>
<tr>
<td></td>
<td>B Crosswise</td>
<td></td>
<td>138</td>
<td>207</td>
<td>270</td>
<td>260</td>
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<td>8</td>
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<td>111</td>
<td>172</td>
<td>240</td>
<td>260</td>
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<td>9</td>
<td>Arc Resistance</td>
<td>S</td>
<td>20</td>
<td>60</td>
<td>20</td>
<td>60</td>
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<tr>
<td>10</td>
<td>Thermal Stress At 260°C, 10s</td>
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<td></td>
<td>No Delaminating and Blistering</td>
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<td>11</td>
<td>Flammability</td>
<td>-</td>
<td>V-1</td>
<td>UL 94 V-0</td>
<td>V-1</td>
<td>UL 94 V-0</td>
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<tr>
<td>12</td>
<td>CTI</td>
<td>400v only ZD-95 (G) FH</td>
<td>400v only ZD-95 (G) FH</td>
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</table>

**Note:**

1. Test methods are in accordance with GB/T4722.
2. Typical values are stable values tested by our company. But they can’t be used as guaranteed values. If required they can be negotiated by us.

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