T-pad 1500 is a highly durable pad, formulated to thermally connect hot electronic devices to a cold wall or nearby metal work whilst also maintaining electrical insulation. The cold flow action of T-pad 1500 and its soft surfaces on both sides, deliver a good thermal wet out between mating surfaces, this obviates micro air voids for reduced thermal resistance and improved thermal performance. T-pad 1500 can be supplied in die-cut shapes for use in a wide range of electronic applications.

**Features**

- Electrically insulating and moderate thermal performance properties
- Thermal conductivity = 1.5 W/mK
- Requires mounting pressure via spring, metal clip or clamp

**Availability**

- Standard thickness of 0.23mm
- Available as custom die-cut shapes and standard sheet sizes of 300mm x 300mm
- Available in roll format to specified width, custom shape adhesive parts can also be supplied on rolls
- Low tack adhesive can be coated on one side

**Benefits**

- Guaranteed electrical isolation
- Fills micro air voids between device and mating metal work at the interface. Improving thermal performance
- Maintains temperature stability over a wide range of temperatures

**Recommended Uses**

- Any heat generating surface to metal that requires good thermal performance and electrical insulation
- Cooling power devices mounted to a heatsink or chassis in PSUs
- Thermally coupling TO220 and TO247 devices to heatsinks

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property (unit)</th>
<th>Test Method</th>
<th>T-pad 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Visual</td>
<td>Yellow</td>
</tr>
<tr>
<td>Thermal Conductivity (W/mK)</td>
<td>ASTM D5470</td>
<td>1.5</td>
</tr>
<tr>
<td>Hardness (Shore 00)</td>
<td>ASTM D2240</td>
<td>70</td>
</tr>
<tr>
<td>Thermal Impedance (K-cm²/W @ 69KPa)</td>
<td>ASTM D5470</td>
<td>2.90</td>
</tr>
<tr>
<td>Operating Temp. (°C)</td>
<td>-</td>
<td>-40 to +200</td>
</tr>
<tr>
<td>Flame Rating</td>
<td>UL94</td>
<td>V-0</td>
</tr>
</tbody>
</table>

**Electrical and Mechanical Information**

<table>
<thead>
<tr>
<th>Property (unit)</th>
<th>Test Method</th>
<th>T-pad 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (N/mm)</td>
<td>ASTM D412</td>
<td>20</td>
</tr>
<tr>
<td>Elongation (%)</td>
<td>ASTM D412</td>
<td>10</td>
</tr>
<tr>
<td>Breakdown Voltage (Volts AC)</td>
<td>ASTM D149</td>
<td>&gt;6000</td>
</tr>
<tr>
<td>Volume Resistivity (Ω-cm)</td>
<td>ASTM D257</td>
<td>2.0 x 10¹³</td>
</tr>
</tbody>
</table>

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**This material is often used in these industries:**

- Industrial
- LED
- Telecom
- PSU

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