Technical Data Sheet

**ASSEMBLY MATERIALS**

**Product Type:** Conductive Adhesive  
**Product Name:** PC 3431

### Key Benefits
- High electrical and thermal conductivity  
- Flexible, low E-module system  
- Low ionic contamination

### Description
PC 3431 is a thermosetting, one-component, solvent-free, silver-filled epoxy conductive adhesive, designed for the connection of SMT components and bare dies on PCB for dispensing.

### Compliant Products
- Conductive Adhesive: PC3000 Series

### Key Benefits
- High electrical and thermal conductivity  
- Flexible, low E-module system  
- Low ionic contamination

### Applications
- Dispensing

### Physical Properties

<table>
<thead>
<tr>
<th>Processing Life (h)</th>
<th>Curing Profile</th>
<th>Substrate and Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. 20</td>
<td>10 min / 150 °C</td>
<td>PCB and flex PCB</td>
</tr>
<tr>
<td></td>
<td>20 min / 120 °C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Adhesion (N/mm²) Standard: DIN EN 1465</th>
<th>Weight Loss during Curing Process at 150 °C (%)</th>
<th>Glass Transition Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 15</td>
<td>Max. 1.5</td>
<td>Approx. 31</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thermal Conductivity (W/mK)</th>
<th>Volume Resistivity (mΩ.cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 5</td>
<td>Max. 0.3</td>
</tr>
</tbody>
</table>

### Halogen Content
**Hydrolyse Halogen**  
Tolerance: Halogen < 50 ppm

### Cleaning Instructions
The uncured adhesive can be removed with Zestron HC and other Zestron and Vigon cleaning materials. The cleaned parts must be completely dry before installing them in the machine. Defective components can be removed by heating the cured adhesive joint with hot air above 250°C. The hot remaining adhesive can be removed with a sharp tool.

### Adhesive Conditioning
- Remove adhesive from freezer: Before opening the package leave it for at least 2 hours at room temperature so that adhesive heats up  
- Do not open jar/cartridge while adhesive is cold to prevent condensation  
- Do not use faster defrost systems
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Storage

- Store the adhesive in tightly-sealed containers and avoid exposure to high humidity and sunlight
- Store the cartridges with tip pointing downwards
- Max. expiration date: Shelf life: Please refer to the expiry date on the label of the packaged product
- Storage condition in the freezer at – 40 °C