TECHNICAL DATASHEET

Elecolit® 3012 is a 1K silver-filled, solvent-free pasty conductor adhesive. It is available in a single component version and features especially good conductive properties, excellent gap filling attributes and can be processed via dispenser or screen printing.

Prior to opening the can, the paste should have reached room temperature to prevent the development of condensed water.

**Shelf life:** 6 months at 5°C

**Technische Daten:**

- **Color:** Silver
- **Resin:** Epoxy
- **Filler:** Approx. 75% silver

**UNCURED PROPERTIES**

- **Viscosity:** Paste-like
- **Flash point [°C]:** > 100
- **Density [g/cm³]:** Approx. 2

**Curing**

<table>
<thead>
<tr>
<th>Time (hours/minutes)</th>
<th>Temperature (°C)</th>
<th>Tg - DSC (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 hours at 85°C</td>
<td>115°C</td>
<td></td>
</tr>
<tr>
<td>4 hours at 100°C</td>
<td>102°C</td>
<td></td>
</tr>
<tr>
<td>20 minutes at 130°C</td>
<td>78°C</td>
<td></td>
</tr>
<tr>
<td>10 minutes at 150°C</td>
<td>61°C</td>
<td></td>
</tr>
<tr>
<td>30 minutes at 150°C</td>
<td>102°C</td>
<td></td>
</tr>
</tbody>
</table>

**CURED PROPERTIES**

- **Temperature Resistance [°C]:** -40 to 200
- **Hardness Shore D:** 82
- **Volume resistivity [Ohm x cm]:** 0.013
- **TG DSC [°C]:** > 102
- **Thermal Expansion [ppm/K]:** 66.7
- **Thermal conductivity [W/mK]:** 2

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Our data sheets have been compiled to the best of our knowledge. The information included in our data sheets is exclusive information for the intended user and describes characteristics, with no declaration of commitment. We recommend trials in order to confirm that our products satisfy the particular application requirements. For additional technical consultation, please contact our R&D department. In general, for guarantee claims, please refer to our standard terms and conditions.

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Adhesives and more...

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TECHNICAL DATASHEET

Elecolit® 3012

Mechanical Data

Lap Shear Strength (Alu/Alu (30min bei 150°C)) [MPa] [PE-Norm P013] approx. 9.6

Instructions for Use

Surface Preparation
The surfaces to be bonded should be free of dust, oil, fat or any other dirt in order to optimise reproducible results. LIGHTLY SOILED SURFACES CAN BE CLEANED WITH CLEANER IP TO CREATE A SUITABLE WORKING SURFACE.

Application
Our products are delivered ready for use. As soon as you receive them, you can dispense or use them for screen printing processes. You should store the products at 5°C for longer shelf life time.

Before using acclimate the adhesive up to room temperature. Liquid Elecolit products have to be homogenised well before application. Paste-like products can be used directly.

1-C Products have no mixing ration and pot life time.

Curing
For curing heat must be applied. The polyaddition starts at temperature over 100°C. Higher temperature will reduce the curing time. For detailed curing information, please look into the technical data sheet. Higher curing temperature will lead to better electrical conductivity and less volume resistivity.

If help is required, please contact our engineering department.
Please read the corresponding Safety Data Sheet for this product.