Elecolit® 3043 is a 1K silver-filled, solvent-free, low viscose conductive adhesive. The adhesive is available in a single component version. The small kernel size of the silver particles allows for optimum dosages. Elecolit 3043 features low ionic content. After extended storage periods, the product must be homogenized, given that it sediments naturally in low viscose resin. Ceramic/V2A cohesiveness: 8.6 N/mm² (hardens at 150°C/30 min.)

**Shelf life:** 6 months at 5°C

### UNCURED PROPERTIES

- **Viscosity (Brookfield LVT/25°C) [mPa*s]**
  - PE-Norm P001: 4000 to 5000
  - PE-Norm P050: > 100
  - PE-Norm P051: approx. 3.8
- **Flash point [°C]**
- **Density [g/cm³]**

### Curing

<table>
<thead>
<tr>
<th>Time (minutes)</th>
<th>Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>150</td>
</tr>
<tr>
<td>20</td>
<td>120</td>
</tr>
<tr>
<td>30</td>
<td>110</td>
</tr>
</tbody>
</table>

### CURED PROPERTIES

- **Temperature Resistance [°C]**
  - PE-Norm P030: -40 to 180
  - PE-Norm P052: 75 to 85
- **Hardness Shore D**
- **Volume resistivity [Ohm x cm]**
  - ASTM-D-257-93: 0.015
  - PE-Norm P053: < 0.17
- **Water Absorption [Gew-%]**
  - PE-Norm P009: 140 to 150
  - PE-Norm P017: 52
- **TG DSC [°C]**
- **Thermal Expansion [ppm/K]**
- **Thermal conductivity [W/mK]**
  - ASTM 1530: 2
TECHNICAL DATASHEET

Elecolit® 3043

Mechanical Data

Lap Shear Strength (Alu/Alu) [MPa] [PE-Norm P013] approx. 9,7
Lap Shear Strength (Stahl/Stahl) [MPa] [PE-Norm P013] approx. 15,0
Lap Shear Strength (Messing/Messing) [MPa] [PE-Norm P013] approx. 4,3

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.