

# TECHNICAL DATASHEET

# Elecolit® 3024

Elecolit® 3024 is an electrically conductive 2part epoxy resin adhesive with a long processing time. The mixing ratio is 1:1 weight components.

The adhesive may be processed with a dispenser, screen printing or stamp printing. Elecolit® 3024 was specifically developed for the bonding of heat sensitive components. Curing is possible at just 80 °C. At high temperatures, the product cures in the shortest possible time = "snap cure".

### Shelf life:

6 months at 25°C 9 months at 5°C 12 months at -40°C

### **Technical Data**

Color silver
Resin 2K-Epoxy
Filler approx. 70% silver

### **UNCURED PROPERTIES**

Viscosity (Brookfield LVT/25  $^{\circ}$ C) [mPa·s] PE-Norm P001 2800 Flash point [ $^{\circ}$ C] PE-Norm P050 > 207 Pot-Life [hours] PE-Norm P019 approx. 8 Density [g/cm³] PE-Norm P003 approx. 3

# Curing

180	minutes at	80	°C
2	hours at	90	°C
15	minutes at	120	℃
5	minutes at	150	°C

Our data sheets have been compiled to the best of our knowledge. The information included in our data sheets is exclusive information for the tended 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 an additional technical consultation, please contact our RD department. In general, for guarantee claims, please refer to our standard terms and conditions.

## CURED PROPERTIES

# Adhesives and more...

Temperature Resistance [°C]	PE-Norm P030	-40 to 150
Hardness [Shore D]	PE-Norm P052	82
Volume resistivity [Ohm x cm]	ASTM-D-257-93	0.0005
Tg [℃] (DSC)	PE-Norm P009	50 to 60
CTE [ppm/K]	PE-Norm P017	62



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### **Mechanical Data**

Lap Shear Strength (Alu/Alu) [MPa]

[PE-Norm P013] approx. 9.8

## **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 Elecolit 2-C products are delivered in separate packing units. Resins can crystallize at deep temperature storage- this process will be reversible by heating for 1hour at 40 °C.

The components A and B have to be homogenised well, weigh out in mixing ration and homogenised with each other for min. 2 minutes.

From now, the pot life time starts and the adhesive has to be applied rapidly. You can dispense or use them for screen printing processes.

#### Curing

For curing heat must be applied. In some cases they will cure even at room temperature. But 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.

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