

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

Technische Daten :

Color	silver
Resin	epoxy
Filler	approx. 80% silver

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	4000 to 5000
Flash point [°C]	PE-Norm P050	> 100
Density [g/cm ³]	PE-Norm P051	approx. 3.8

Curing

10	minutes at	150	°C
20	minutes at	120	°C
30	minutes at	110	°C
15,0			

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 180
Hardness Shore D	PE-Norm P052	75 to 85
Volume resistivity [Ohm x cm]	ASTM-D-257-93	0.015
Water Absorption [Gew-%]	PE-Norm P053	< 0,17
TG DSC [°C]	PE-Norm P009	140 to 150
Thermal Expansion [ppm/K]	PE-Norm P017	52
Thermal conductivity [W/mK]	ASTM 1530	2

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.

Adhesives
and more...

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 UseSurface 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.