

TECHNICAL DATASHEET

Elecolit® 3012

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] PE-Norm P050 > 100 Density [g/cm 3] PE-Norm P051 approx. 2

Curing

8	hours at	85	°C	115 °C Tg - DSC
4	hours at	100	°C	102 °C Tg - DSC
20	minutes at	130	°C	78 °C Tg - DSC
10	minutes at	150	°C	61 °C Tg - DSC
30	minutes at	150	°C	102 °C Tg - DSC

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 200
Hardness Shore D	PE-Norm P052	82
Volume resistivity [Ohm x cm]	ASTM-D-257-93	0.013
TG DSC [°C]	PE-Norm P009	> 102
Thermal Expansion [ppm/K]	PE-Norm P017	66.7
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...

XP.08.81

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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.