



TECHNICAL DATASHEET

Elecolit® 6603

Elecolit® 6603 is a 1K thermally conductive, slightly flexible adhesive with excellent metal bonding, which can also be used as a casting mass.

This is a single-component product with excellent flow characteristics and can be processed via dispenser, screen printing, coating knife or spatula.

Shelf life: 3 months at 25°C
6 months at 5°C

Technische Daten :

Color grey
Resin epoxy
Filler approx. 50% Aluminiumoxid

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	95000 to 115000
Flash point [°C]	PE-Norm P050	> 100
Density [g/cm ³]	PE-Norm P051	approx. 1.75

Curing

20	minutes at	150	°C
30	minutes at	130	°C
60	minutes at	100	°C

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 200
Hardness Shore D	PE-Norm P052	78 to 88
Volume resistivity [Ohm x cm]	ASTM-D-257-93	2E+15
Water Absorption [Gew-%]	PE-Norm P053	< 0,3
TG DSC [°C]	PE-Norm P009	83 to 93
Thermal Expansion [ppm/K]	PE-Norm P017	48
Dielectric Constant [10kHz]	PE-Norm P054	0,4
Thermal conductivity [W/mK]	ASTM 1530	1.3
Dielectric Strength [kV/mm]	PE-Norm P055	18.1

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 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. 15,03
Lap Shear Strength (Stahl/Stahl) [MPa]	[PE-Norm P013] >20,0

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.

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