



TECHNICAL DATASHEET

Elecolit® 6207

Elecolit® 6207 is a 2K thermally conductive epoxy resin casting and capsule mass that cures at low temperatures or at room temperature within 5 – 7 days. The mixing ratio is 1 : 1 volume components.

The product is UL-94V-0 (1/4" layer thickness) listed.

UL file number - QMFZ2.E306384, Plastics - Component

It features excellent temperature – shock resistance and minor shrinking.

Shelf life: 24 months at 25 °C

Technical Data

Color black
Resin 2K-Epoxy

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25 °C) [mPa·s]	PE-Norm P001	9000 to 12000
Flash point		-
Pot-Life [min.]	PE-Norm P019	approx. 120
Density [g/cm ³]	PE-Norm P003	approx. 1.55

Curing

168	hours at	25	°C
2	hours at	65	°C

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-55 to 110
Hardness [Shore D]	PE-Norm P052	76
Volume resistivity [Ohm x cm]	ASTM-D-257-93	3E+14
Shrinkage [Vol-%]	PE-Norm P031	.035
Water Absorption [mass-%]	PE-Norm P053	< 0.31
Tg [°C] (DSC)	PE-Norm P009	35 to 40
CTE [ppm/K]	PE-Norm P017	15
Dielectric Constant [10kHz]	PE-Norm P054	3.9

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 R&D department. In general, for guarantee claims, please refer to our standard terms and conditions.

**Adhesives
and more...**

Mechanical Data

Lap Shear Strength (Alu/Alu (2h bei 65 °C)) [MPa]	[PE-Norm P013]	approx. 16.2
Lap Shear Strength (Stahl/Stahl (2h bei 65 °C)) [MPa]	[PE-Norm P013]	approx. 19.7
Lap Shear Strength (Stahl/Stahl (48h bei RT)) [MPa]	[PE-Norm P013]	approx. 14.7

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 1 hour 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.

If help is required, please contact our engineering department.

Please read the corresponding **Safety Data Sheet** for this product.