Technical Datasheet Elecolit® 336



Product Description

Modified epoxy | 2 part | solvent-free | thermal-curing | thermally conductive | electrically conductive

- Electrical contacting
- ESD protection / discharge

- Good conductivity at room temperature curing
- Silver-filled

Curing Properties

This product is a two-component adhesive. The adhesive can be applied after mixing the two components in their appropriate ratios. All two-component adhesives have a determined pot life. Consideration should be given to the amount of adhesive that is mixed, as it must be applied within the noted pot life for optimal dispensing and assembly.

Mixing ratio	Pot life
1:1	2 h

This adhesive can be cured at room temperature or more rapidly with heat. Typical curing temperatures are listed in the table below.

Temperatures	Time
25°C	6 h
50°C	2 h
100°C	30 min
120°C	15 min
150°C	5 min

The heat cure times are only provided as a guideline. They are derived from curing a 2g adhesive sample without affixed substrates in a laboratory environment. Actual cure times can vary based on part size, configuration, adhesive volume, temperature control, and the time required for the component substrates to attain oven temperature.

The final bond strength of the adhesive is achieved no sooner than 24 h after the bonded components are removed from the oven.

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Technical Data	
Resin	Ероху
Appearance	Grey
Filler	Silver
Filler - weight [%]	81
Particle size D95 [μm]	26
Uncured Material	
Viscosity [mPas] mix	Paste-like
Density [g/cm³]	
PE-Norm 004	2.6 – 2.9
Flash point [°C]	.100
PE-Norm 050	>100
Cured Material	
Hardness shore D	7000
PE-Norm 006	70 – 80
Temperature resistance [°C]	-40 – 150
Shrinkage [%]	
PE-Norm 031	<3
Water absorption [%]	<1
PE-Norm 016	\1
Glass transition temperature - DSC [°C]	15 10
PE-Norm 009	15 – 40
Coefficient of thermal expansion [ppm/K] below Tg	<40
PE-Norm 017	N40
Coefficient of thermal expansion [ppm/K] above Tg	200 – 300
PE-Norm 017	
Thermal conductivity [W/m*K]	20.22
PE-Norm 062	2.8 – 3.2
Thermal conductivity [W/m*K]	7.3 – 8.3
PE-Norm 054	7.3 - 8.3
Volume resistivity [Ohm*cm]	0.001
PE-Norm 040	
Lap shear strength (steel/steel) [MPa]	
120°C, 15min	2 – 5
PE-Norm 013	
Lap shear strength (steel/steel) [MPa]	
Room temperature, 24h	5 – 10
PE-Norm 013	

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Transport/Storage/Shelf Life

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	At room temperature max. 25°C	0°C 10°C	At delivery
Other packages		0°C – 10°C	min. 6 months max. 12 months

^{*}Store in original, unopened containers!

Instructions for use

Surface preparation

The surfaces to be bonded should be free of dust, oil, grease, mold release, or other contaminants in order to obtain an optimal and reproducible bond. For cleaning we recommend the cleaner IP® from Panacol, or a solution of Isopropyl Alcohol at 90% or higher concentration. Substrates with low surface energy (e.g. polyethylene, polypropylene) must be pretreated in order to achieve sufficient adhesion.

Application

Our products are supplied ready to use. Depending on the packaging, our adhesives may be dispensed by hand directly from the package, or they can be applied using dispensing systems and automation. Many commercially available valve and controller options are available to ensure accurate and consistent adhesive dispensing. For assistance with dispensing and curing questions, please contact our Applications Engineering department. Adhesive and substrate should not be cold for proper bonding. They must be allowed to warm to room temperature prior to processing. After curing, the adhesive must be allowed to cool to ambient temperature before testing the product's performance. For safety information refer to our Material Safety Data Sheet (MSDS).

Storage

Store uncured product in its original, closed container in a dry location. Any material removed from the original container must not be returned to the container as it could be contaminated. Panacol cannot assume responsibility for products that were improperly stored, contaminated, or repackaged into other containers.

Handling and Clean-up

For safe handling information, consult this product's Material Safety Data Sheet (MSDS) prior to use. Uncured material may be wiped away from surfaces with organic solvents. Do not use solvents to remove material from eyes or skin!

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Disclaimer

The product is free of heavy metals, PFOS and Phthalates and is conform to the current EU-Directive RoHS.

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