

Product Description

Modified epoxy | 1 component | solvent-free | heat-curing

- Wire protection
- Potting and sealing of temperature sensitive substrates
- Non-conductive
- Outstanding adhesion to high performance plastics (LCP, PBT)
- High purity
- Electronic grade standard
- Good mechanical stability
- Good chemical resistance

Curing Properties

This adhesive must be cured with heat. Typical curing temperatures are listed in the table below.

Temperatures	Time
60°C	60 min
80°C	30 min
100°C	15 min
120°C	10 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.



Technical Data	
Resin	Ероху
Appearance	Translucent
Filler	Glass
Filler – weight [%]	20
Particle size D95 [µm]	10
Viccosity ImPast (Kinovyc Rhoometor, 25 °C, 10c, 1)	
PE Standard 064	5,000 - 10,000
Density [g/cm ³]	
PE-Standard 004	1.4
Working life [days]	
At room temperature	3
Cured Material	
Hardness shore D	55 – 70
Temperature resistance [°C]	
PE-Standard 059	-40 – 180
Shrinkage [%]	
PE-Standard 031	<1
Volumetric shrinkage [%]	.2
PE-Standard 032	<2
Water absorption [wt%]	<2
PE-Standard 016	
Glass transition temperature - DSC [°C]	20.45
PE-Standard 009	30-45
Coefficient of thermal expansion [ppm/K] below Tg	20 50
PE-Standard 017	30-30
Coefficient of thermal expansion [ppm/K] above Tg	150 – 250
PE-Standard 017	150 250
Young's modulus – Tensile test [MPa]	4 500 - 0 500
PE-Standard 056	1,500 – 2,500
Young's modulus – DMA [MPa]	200 600
PE-Standard 022	200 - 800
Tensile strength [MPa]	15 – 25
PE-Standard 014	13 23
Elongation at break [%]	20 – 45
PE-Standard 014	
Lap shear strength (steel/steel) [MPa]	15 – 17
PE-Standard 013	
DE Standard 012	9 – 11
Lan shear strength (AlMg1/AlMg1) [MPa]	
PE-Standard 013	5-7
Lap shear strength (PMMA/PMMA) [MPa]	
PE-Standard 013	9 – 12



Transport/Storage/Shelf Life

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	20%	20%	At delivery
Other packages	-20 C	-20 C	max. 6 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 packaging they can be applied by hand directly from the container or by using compatible 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. To obtain best results, the adhesive and substrates to be bonded may not be cold and should be allowed to warm to room temperature prior to processing. 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!



Disclaimer

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

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