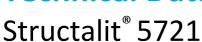
# **Technical Datasheet**





### **Product Description**

#### Modified epoxy | 1 K | solvent-free | heat-curing

- Glob top
- Fill for "Frame and Fill"
- Electrics
- Electronics

- Very good flowability
- High glass transition temperature
- No bleeding
- Very low ionic content (<10ppm)</p>
- Suitable for semiconductors

### **Curing Properties**

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

Temperatures	Time	
30min at 120°C and following 45min at 150°C		
Alternative 150°C	1h	

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	Black
Filler	Quartz
Filler - weight [%]	50
Particle size D95 [μm]	40

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Uncured Material	
Viscosity [mPas] (Kinexus Rheometer, 25 °C, 5s <sup>-1</sup> )	15,000 – 20,000
PE-Norm 064	13,000 20,000
Thixotropic index [1/10]	1.2 – 1.4
PE-Norm 064	
Density [g/cm³]	1.4 – 1.6
PE-Norm 004	
Flash point [°C]	>100
PE-Norm 050	
Working life [days]	3
@ room temperature	
Cured Material	
Hardness shore D	70 – 90
PE-Norm 006	70 – 90
Temperature resistance [°C]	-40 – 200
PE-Norm 059	-40 – 200
Shrinkage [%]	<1
PE-Norm 031	<u></u>
Water absorption [%]	<1
PE-Norm 016	<u> </u>
Glass transition temperature - DSC [°C]	
PE-Norm 009	150 – 180
Coefficient of thermal expansion [ppm/K] below Tg	
PE-Norm 017	<40
Coefficient of thermal expansion [ppm/K] above Tg	100 150
PE-Norm 017	100 – 150
Thermal conductivity [W/m*K]	
PE-Norm 062	0.2 - 0.4
Thermal conductivity [W/m*K]	
PE-Norm 054	0.5 – 1.0
Dielectric constant [10kHz]	
IEC 62631-2-1	1-3
Dielectric strength [kV/mm]	10. 22
DIN EN 60243	18 – 22
Versión del la Tarrila del INADA	
Young's modulus – Tensile test [MPa]	700 850
150°C, 60min	700 - 850
PE-Norm 056	
Tensile strength [MPa]	24 20
150°C, 60min	24 – 30
PE-Norm 014	
Elongation at break [%]	
150°C, 60min	<1
PE-Norm 014	

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#### **Transport/Storage/Shelf Life**

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	-20°C	20%5	At delivery
Other packages		-20°C	Max. 3 months

<sup>\*</sup>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!

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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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