Structalit® 5894 M



Product Description

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

Glop top

- ► Fast curing at low temperatures
- Good storage stability
- Good shock resistance

Curing Properties

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

Temperatures	Time
100°C	60 min
110°C	35 min
120°C	25 min
150°C	5 min

The curing times given are guidelines. They refer to rheological measurements according to PE-Norm 067. The heating times of the parts to be joined are not taken into account.

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	Black
Filler	Quartz
Filler - weight [%]	50
Particle size D95 [µm]	21
raiticle size D33 [μπη	21
Uncured Material	
Viscosity [mPas] (Kinexus Rheometer, 25 °C, 20s ⁻¹)	20,000 – 30,000
PE-Norm 064	20,000 – 30,000
Density [g/cm³]	1.5 – 1.6
PE-Norm 004	1.5 1.0
Cured Material	
Hardness shore D	
150°C, 30min	80 – 90
PE-Norm 006	
Temperature resistance [°C]	-40 – 180
Shrinkage [%]	
150°C, 30min	< 1
PE-Norm 031	
Water absorption [%]	< 1
150°C, 30min PE-Norm 016	\ 1
PE-NOTHI 016	
Glass transition temperature - DSC [°C]	
150°C, 30min	100 – 115
PE-Norm 009	
Coefficient of thermal expansion [ppm/K] below Tg	20 50
150°C, 30min	30 – 50
PE-Norm 017 Coefficient of the small expension [nam /V] shows To	
Coefficient of thermal expansion [ppm/K] above Tg	120 – 140
150°C, 30min PE-Norm 017	120 140
Thermal conductivity [W/m*K]	
150°C, 30min	0.3 – 0.4
PE-Norm 062	
Young's modulus – Tensile test [MPa]	
150°C, 30min	6 000 – 7 500
PE-Norm 056	
Tensile strength [MPa]	
150°C, 30min	40 – 45
PE-Norm 014	
Elongation at break [%]	
150°C, 30min	< 1
PE-Norm 014	

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Transport/Storage/Shelf Life

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	0 °C – 10 °C	-20°C	At delivery
Other packages		0°C – 10°C	min. 3 months 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!

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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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