# **Technical Datasheet** Structalit® 5717



### **Product Description**

#### Modified epoxy | 1 part | 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 afterwards 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

## **Technical Datasheet**

# Structalit® 5717

PE-Norm 014



Uncured Material	
Viscosity [mPas] (Kinexus Rheometer, 25 °C, 5s <sup>-1</sup> )	3,000 - 8,000
PE-Norm 064	3,000 – 8,000
Thixotropic index [1/10]	1.0 – 1.3
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	
Water absorption [%]	<1
PE-Norm 016	
Glass transition temperature - DSC [°C]	
PE-Norm 009	150 – 180
Coefficient of thermal expansion [ppm/K] below Tg	.40
PE-Norm 017	<40
Coefficient of thermal expansion [ppm/K] above Tg	100 150
PE-Norm 017	100 – 150
Dielectric constant [10kHz]	
IEC 62631-2-1	1-3
Dielectric strength [kV/mm]	4020
DIN EN 60243	18 - 22
Various s'a residude a Tamaille te et [MD=]	
Young's modulus – Tensile test [MPa]	700 050
150°C, 60min	700 – 850
PE-Norm 056 Tonsile strongth [MDe]	
Tensile strength [MPa]	24 20
150°C, 60min	24 – 30
PE-Norm 014	
Elongation at break [%]	-1
150℃, 60min	<1

## **Technical Datasheet** Structalit® 5717



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

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	-20°C	30°C	At delivery
Otherpackages		-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!

## **Technical Datasheet** Structalit® 5717



#### **Disclaimer**

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

## THE VALUES NOTED IN THIS TECHNICAL DATA SHEET ARE TYPICAL PROPERTIES AND ARE NOT MEANT TO BE USED AS PRODUCT SPECIFICATIONS.

The information contained in this data sheet is believed to be accurate and is provided for information only. Panacol makes no representation or warranties of any kind concerning this information. It is the user's responsibility to determine the suitability of this product for any intended use. Panacol does not assume responsibility for test or performance results obtained by the user. The user assumes all risk and liability connected with the use of this product.

The user should adopt such precautions and use guidelines as may be advisable for the protection of property and persons against any hazards that may be involved in this product's handling or use. Panacol specifically disclaims any liability for consequential or incidental damages of any kind arising from the handling or use of this product. The information contained in this Technical Data Sheet offers no assurance that the product use, application, or process will not infringe on existing patents or licenses of others. Nothing in this Technical Data Sheet transfers or grants license for the use of any patents, trade secrets, intellectual property, or confidential information that is the property of Panacol.

Except as otherwise noted, all trademarks in this document (identified as \*) are the property of Panacol.

#### Contact

Panacol-Elosol GmbH Stierstädter Straße 4 61449 Steinbach Germany Phone: +49 6171 6202-0 Mail: info@panacol.de www.panacol.com

Panacol-USA. Inc. 142 Industrial Lane **Torrington CT 06790** USA Phone: +1 860-738-7449 Mail: info@panacol-usa.com www.panacol-usa.com

Panacol-Korea Co.. Ltd. #707, Kranz Techno, 388 Dunchon-daero Junwon-gu, Seongnam Gyeonggi-do, 13403 KOREA Phone: +82 31 749 1701 Mail: info@panacol-korea.com www.eleco-panacol.fr www.panacol-korea.com

Eleco Panacol - EFD 125, av Louis Roche Z.A. des Basses Noëls 92238 Gennevilliers Cdx FRANCE Tél.: +33 (0)1 47 92 41 80 Mail: eleco@eleco-panacol.fr