TECHNICAL DATASHEET
STRUCTALIT®5606 F

PRODUCT DESCRIPTION

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

- SMD adhesive
- Fast curing at low temperature
- Good shock resistance
- Short-term applicable (max.5 min) up to 270 °C

CURING PROPERIES

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

Temperatures	Time
100 °C	55 min
120 °C	20 min
150 °C	7 min

The curing times given are guidelines. They refer to rheological measurements according to Test instruction P067. 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	Epoxy
Appearance	Pink
Fluorescence	Blue

Uncured Material	
Viscosity [mPas] (Brookfield LVT, 25 °C, Sp4/6rpm) *Test instruction P001*	22,000 – 30,000
Density [g/cm³] *Test instruction P004*	1.1

Cured Material	
Hardness shore D *Test instruction P006*	67
Typical operating temperature [°C]	-40 – 180

Glass transition temperature - DSC [°C] *Test instruction P009*	120
Coefficient of thermal expansion [ppm/K] below Tg *Test instruction P017*	50
Coefficient of thermal expansion [ppm/K] above Tg *Test instruction P017*	259

Dielectric constant [10kHz] *IEC 62631-2-1*	3
Volume resistivity [Ohm*cm] *Test instruction P040*	8

Young´s modulus – Tensile test [MPa] *Test instruction P056*	2186
Elongation at break [%] *Test instruction P014*	<2
Lap shear strength (steel/steel) [MPa] *Test instruction P13*	17
Lap shear strength (stainless steel/stainlesssteel) [MPa] *Test instruction P13*	29
Lap shear strength (Al/Al) [MPa] *Test instruction P13*	13

TRANSPORT/STORAGE/SHELF LIFE

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	0 °C – 10 °C	0 °C – 10 °C	At delivery min 4.5 months max. 9 months
Other packages			

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 Hoenle, 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. Hoenle 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.

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

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