

Technical Data Sheet



ASSEMBLY MATERIALS

Product Type: Conductive Adhesive

Product Name: PC 3002

Description

PC 3002 is a thermosetting, one-component, solvent-free, silver-filled epoxy conductive adhesive, designed for the connection of electronic (SMDs) and bare dies with LTCC and ceramic substrates.

Key Benefits

- High electrical and thermal conductivity
- Very low degassing
- High reliability

Compliant Products

SMT Adhesive: PD 955 M

Applications

Printing

Physical	Properties

Processing Life (h)	Curing Profile	Substrate and Components
Approx. 32	10 min / 150 °C 20 min / 120 °C	Substrate Materials: LTCC, Al ₂ O ₃ — Ceramic, lead frames and flexible substrates
Adhesion (N/mm²)	Weight Loss during Curing Process	O. T. '.' T

Adhesion (N/mm²) Standard: DIN EN 1465	Weight Loss during Curing Process at 150 °C (%)	Glass Transition Temperature (°C)
Min. 8	Max. 0.8	Approx. 41

Thermal Conductivity	Volume Resistivity
(W/mK)	(mΩ.cm)
Min 5	Max 03

Halogen Content

Hydrolyse Halogen

Tolerance: Halogen < 50 ppm

Cleaning Instructions

The uncured adhesive can be removed with Zestron HC and other Zestron and Vigon cleaning materials. The cleaned parts must be completely dry before installing them in the machine. Defective components can be removed by heating the cured adhesive joint with hot air above 250°C. The hot remaining adhesive can be removed with a sharp tool.

Adhesive Conditioning

- Remove adhesive from freezer: Before opening the package leave it for at least 2 hours at room temperature so that adhesive heats up
- Do not open jar/cartridge while adhesive is cold to prevent condensation
- Do not use faster defrost systems
- Before use of adhesive jar: To obtain uniform, stable viscosity stir adhesive for 1 to 2 min, using a stainless steel or chemically resistive plastic spatula
- Caution: When automatic stirring equipment is used, do not stir the adhesive for longer than 2 min. For further information see Handling Instructions



Technical Data Sheet

Storage

- Store the adhesive in tightly-sealed containers and avoid exposure to high humidity and sunlight
- Max. expiration date: Shelf life: Please refer to the expiry date on the label of the packaged product
- Storage condition in the freezer at 40 °C

Heraeus Electronics

Heraeus Deutschland GmbH & Co. KG Heraeusstraße 12 – 14 63450 Hanau, Germany www.heraeus-electronics.com

Americas

Phone +1 610 825 6050 electronics.americas@heraeus.com

Asia Pacific

Phone +65 6571 7677 electronics.apac@heraeus.com

China

Phone +86 21 3357 5457 electronics.china@heraeus.com

Europe, Middle East and Africa

Phone +49 6181 35 3069, +49 6181 35 3627 electronics.emea@heraeus.com