

PRODUCT DESCRIPTION

Modified acrylate | 1 part | thermal curing | thermally conductive | electrically conductive

- ▶ Contacting rear window heaters
- ▶ Coating
- ▶ ESD protective lacquer
- ▶ Silver-filled
- ▶ Good adhesion to glass, metal and plastic
- ▶ Contains solvent

CURING PROPERTIES

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

| Temperatures | Time |
|--------------|--------|
| 25°C | 12 h |
| 50°C | 2 h |
| 100°C | 30 min |
| 120°C | 10 min |

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.

TECHNICAL DATASHEET

ELECOLIT® 342



TECHNICAL DATA

| | |
|------------------------|----------|
| Resin | Acrylate |
| Appearance | Grey |
| Filler | Silver |
| Filler - weight [%] | 75 |
| Particle size D95 [µm] | 10 |

| Uncured Material | |
|---|---------------|
| Viscosity [mPas] (Kinexus Rheometer, 25 °C, 10s ⁻¹) <i>Test instruction P064</i> | 1,000 – 2,000 |
| Density [g/cm ³] <i>Test instruction P004</i> | 2.0 – 3.0 |
| Working life [h] <i>@ room temperature</i> | 1 |

| Cured Material | |
|--|-----------|
| Typical operating temperature [°C] | -60 – 175 |
| Water absorption [wt%] <i>Test instruction P016</i> | <1 |

| | |
|--|---|
| Thermal conductivity [W/m*K] <i>Test instruction P062</i> | 1.8 – 2.2 |
| Volume resistivity [Ohm*cm] <i>Test instruction P040</i> | 1 x 10 ⁻³ – 1 x 10 ⁻² |

TRANSPORT/STORAGE/SHELF LIFE

| Package type | Transport | Storage | Shelf life* |
|-------------------|----------------------------------|------------|--|
| Syringe/Cartridge | At room temperature max. 25°C | 0°C – 10°C | At delivery min. 6 months max. 12 months |
| Other packages | | | |

***Store in original, unopened containers!**

INSTRUCTIONS FOR USE

After storing the container at 0°C – 10°C, Elecolit® 342 must be homogenized because of possible sedimentation of silver.

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 the packaging, our adhesives may be dispensed by hand directly from the package, or they can be applied using 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. Adhesive and substrate should not be cold for proper bonding. They must be allowed to warm to room temperature prior to processing. After curing, the adhesive must be allowed to cool to ambient temperature before testing the product's performance. 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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For regional sales and technical support, please refer to our global contact directory

<https://www.hoenle.com/contact>.