



Technical Data Sheet



Thermal Management Adhesive Technologies

EV Therm 288 is silicone free gap filler, formulated exclusively for EV battery environment. This thermal interface material cures at room temperature or accelerated with heat and provides excellent thermal conductivity, electrical insulation, water resistance, corrosion resistance and impact resistance properties.

| Technology/Base: | Silane-Modified Polymer | |
|---------------------|---------------------------------|--|
| Type of Product: | Thermally Conductive Gap Filler | |
| Components: | Two Component | |
| Curing: | Polycondensation Curing | |
| Appearance / Color: | Grey | |
| Consistency: | Pasty | |

Preparation

For some substrates the use of mechanical pretreatment and/or cleaner or primer is necessary to achieve good adhesion. Refer to the product properties section of this data sheet for special surface requirements and suitable adhesion promoters.

Processing

Refer to the technical data table regarding processing parameters. Low temperatures can cause a temporary increase in viscosity resulting in reduced extrusion and slower curing rates.



Features and Benefits



- Very high thermal conductivity
- Free of silicones
- Plasticizer free

- Solvent free
- Ease of Processing
- Low Bond Strength







Technical Data

Product Properties

Suitable Substrates:

- Various galvanized steels Various steel alloys
- Metals
 - · Various other substrates Various aluminum alloys

Surface Requirements:

Dry, clean, free of grease

Surface Cleaning:

Use Körasolv GL, Körasolv PU, or Körasolv W

Application Method:

Cartridge dispenser

· Dispensing system

Cleaning:

• Use Körasolv GL or Körasolv PU

| Part A Properties | | | | |
|--|-------------------|------------|--|--|
| Physical Properties Density Color | 2.1 g/cm³ grey | DIN EN 542 | | |
| Processing Guidelines and Parameters Storage Temperature | 5 °C to 25 °C | | | |

| Typical Electrical Properties of Cured Material | | | |
|---|---------------|---------------------|--|
| Physical Properties | | | |
| Thermal Conductivity | 2.1 W/(m⋅K) | ASTM D5460-12 | |
| Dielectric Strength | > 10 kV/mn | ASTM D149 | |
| Processing Guidelines and Parameters | | | |
| Mixing Ratio (Part A: Part B) by Weight | 1:1 | | |
| Potlife | 3 h | | |
| Mixing Ratio (Part A: Part B) by Volume | 1:1 | | |
| Processing Temperature | -40°C to 80°C | | |
| Cured Material Characteristics | | | |
| Shore Hardness (Type 00) | 81 | ASTM D2240-15 | |
| Tensile Strength | 0.2 MPa | DIN EN ISO 527 | |
| Elongation at Break | 35% | DIN EN ISO 527 | |
| Tear Strength | 1 N/mn | DIN ISO 34-1 Type C | |

| Product Properties | | |
|--------------------------|---------------|--|
| Property | | |
| Viscosity at 1/s | 550 Pas | |
| Viscosity at 10/s | 190 Pas | |
| Operating Temperature | -40°C to 80°C | |
| Volume Resistivity | | |
| Lap Shear Strength | | |



Handling and Clean-Up

Clean tools immediately after use. Once cured, the material can only be removed mechanically. Appropriate cleaners are listed in the product properties table. For further information please contact your local sales office.



Storage and Shelf Life

EV Therm 288 should be used within the shelf life specified on the packaging. The storage stability only applies to material stored under appropriate conditions (original unopened containers, recommended storage temperature).



Typical Packaging

The preferred packaging for sampling is a tandem cartridge 2x200 ml

5 gal Pails

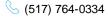


Safety and Disposal

Please see the Safety Data Sheet (SDS) for proper handling and disposal instructions.

The shelf life is 6 months.

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