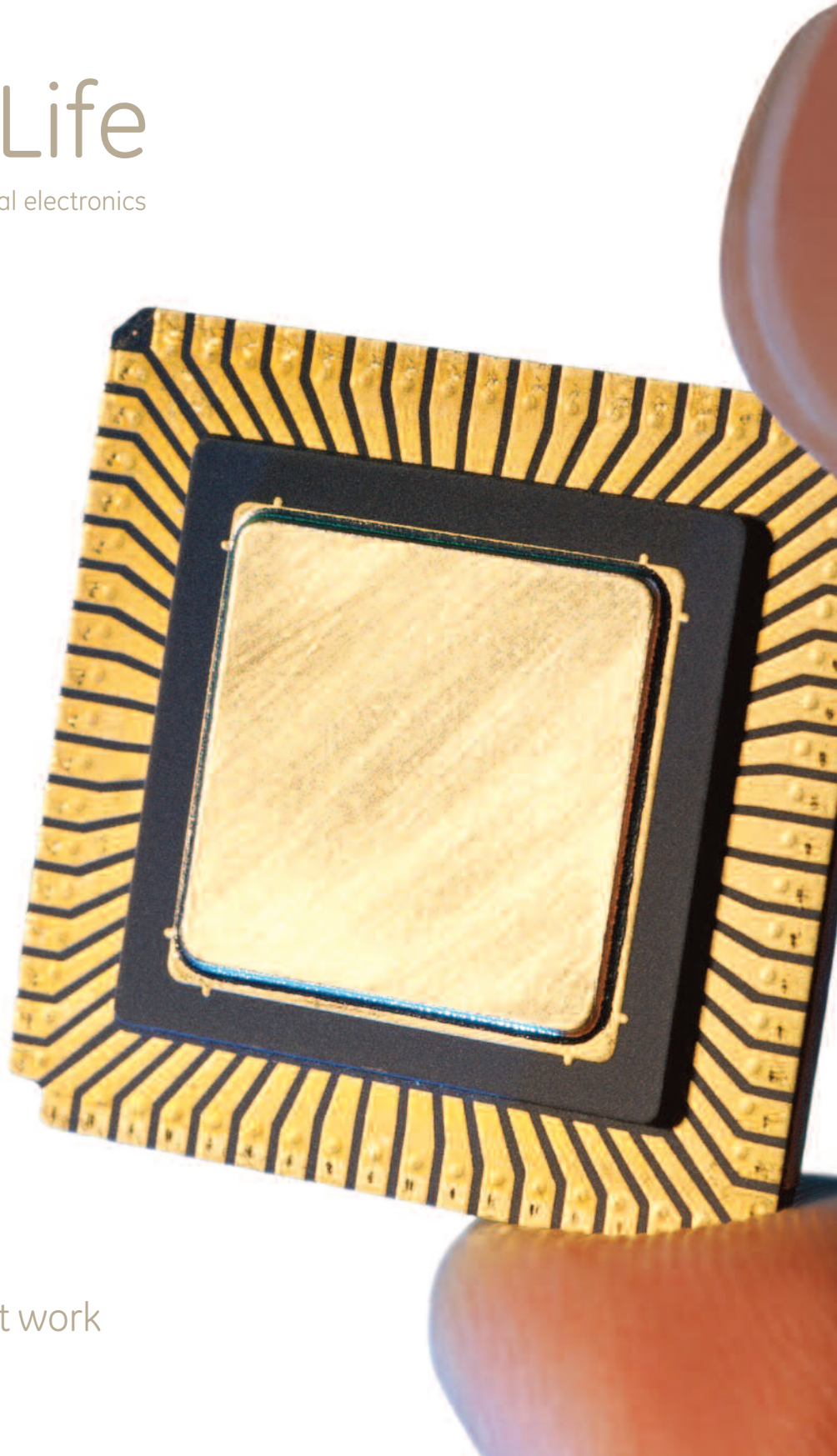


GE Advanced Materials
Silicones

Wired for Life

Silicone materials for innovative medical electronics



GE imagination at work

Design to Live

Long-term, reliable protection of sensitive circuits and components is important in many of today's delicate and demanding electronic applications.

Increased miniaturization of systems, all-in-one device integration designs, and increased circuit density has caused chips to generate larger amounts of heat. If this heat is not driven off and dissipated, the operational lifecycle and reliability of the electronic devices may be reduced. We have formulated materials to offer enhanced thermal conductivity properties that may help you design and assemble with confidence.

As more devices move from hospital to home to self, additional consideration to aesthetics, ergonomics, and portability are a must. We offer a variety of materials that can help protect and enhance your device, making them excellent candidates for both in hospital and in home environments.

Assemble

- From device to board to chip level
- Adhesion to many plastics, metals, silicones
- Room temperature or heat cure
- Thermally conductive available
- Extreme temperature capability
- UV, ozone and sterilization resistant

RTV108/118

- **Room temperature cure**
 - **One-part easy to use**
 - **Class VI/FDA 21CFR177.2600 capable¹**
- Color: Translucent
Mix: 1 part
Viscosity: Paste/Flowable
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 30/25 shore A
Tack Free Time: 20 minutes
Tensile: 400/325 psi (2.8/2.2 MPa)
Elongation: 450/325%

RTV6108

- **Heat cure**
 - **Long mixed work life**
 - **High strength**
- Color: Translucent
Mix: 2 part, 1:1 mix
Viscosity: Paste
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 40 shore A
Work Life: 48+ hours
Tensile: 750psi (5.2 MPa)
Elongation: 450%

Protect

- Environmental protection and enhanced reliability for delicate electronics in a harsh operational environment
- Conformal coating for moisture protection of circuit boards
- Encapsulants for protecting chips or devices from mechanical and environmental exposure
- Gels – unique extremely soft encapsulant for mechanical shock and vibration protection as well as moisture protection

ECC4865

- **Conformal coating**
 - **Fast thermal cure**
 - **Low viscosity, solvent free**
- Color: Translucent
Mix: 1 part
Viscosity: 250 cps (0.25 Pas)
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 35 Shore A
Cure: Heat

XE11-B1002

- **Conformal coating**
 - **Room temperature cure**
 - **Easily sprayable**
- Color: Translucent
Mix: 1 part
Viscosity: 1000 cps (1.0 Pas)
Temp Range: -75 to +400F (-60 to 205C)
Hardness: 25 JIS A
Tack Free Time: 10 minutes
Cure: Room Temp

Enhance

- Gel – special effects, ergonomics
- Transparent colors for styling
- Soft touch overmold on metals and plastics
- Hardcoat protection of plastics
- TopCoat for reduced drag and friction on silicone rubber

LIM8040

- **LSR for injection over mold soft touch**
 - **Self-bonding to metals and plastics**
 - **Easily colored**
- Color: Translucent
Mix: 2 part, 1:1
Temp Range: -75 to +400F (-60 to 205C)
Mold Cycle Time: <45 sec
Durometer: 40 Shore A
Tensile: 750 psi (5.2MPa)

AS4000 Hardcoat

- **Scratch resistant**
 - **Enhance gloss & depth**
 - **Protection from UV**
- Color: Optically Clear
Application: Dip, spray or flow
Thickness: 4.5 to 6.5 microns
Solids: 20%
Solvent: alcohol



SilCool[®] LTR3292 thermal adhesive

- **Thermally conductive**
 - **Thin bond lines**
 - **Excellent long-term stability**
- Color: Dark Gray
Thermal Resistance: 28mm² K/W
Mix: 1 part
Viscosity: Flowable
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 85 shore A
Tensile: 375 psi (2.6 MPa)
Cure: Heat

SDI3000

- **High ionic purity die attach adhesive**
 - **Soft, low modulus**
 - **Low moisture absorption**
- Color: Translucent
Viscosity: Flowable
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 23 shore A
Die Shear Adhesion: 160psi (1.1MPa)
Cure: Heat

SLA7401

- **Flex-circuit laminating adhesive**
 - **Excellent adhesion to polyimide film**
 - **Screen/stencil printable**
- Color: Translucent
Mix: 2 part
Viscosity: Paste
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 40 shore A
Peel Adhesion: 8 - 10 pli
Cure: Heat

RTV6136

- **Gel**
 - **Optically clear**
 - **Probe testable and self-healing**
- Mix: 2 part, 1:1
Viscosity: 750 cps (0.75 Pas)
Temp Range: -75 to +400F (-60 to 205C)
Penetration: 6.0 mm
Cure: Room Temp or Heat

RTV615

- **Elastomeric encapsulant**
 - **Optically clear**
 - **High Strength**
- Mix: 2 part, 10:1
Viscosity: 4000 cps (4 Pas)
Temp Range: -75 to +400F (-60 to 205C)
Durometer: 45 Shore A
Cure: Room Temp or Heat

TSJ3175

- **Glob-top encapsulant**
 - **High ionic purity**
 - **Low modulus gel for stress relief**
- Color: Black
Mix: 2 part, 1:1
Temp Range: -75 to +400F (-60 to 205C)
Penetration: 7.0 mm
Ionic Content: <2ppm
Cure: Room Temp or Heat

TSE3070

- **Thixotropic gel**
 - **Transparent**
 - **Long work life**
- Mix: 1:1
Viscosity: 7800 cps
Temp Range: -75 to +400F (-60 to 205C)
Penetration: 5.5 mm
Cure: Room Temp or Heat

Topcoat

- **Reduce friction and dust pickup on silicone rubber**
 - **Enhance feel & appearance**
 - **Thin coating – spray, dip, brush applied**
 - **Class VI capable¹**
- Color: Transparent
Appearance: matte finish
Cure Time: <60 sec

Custom Colors & Formulations

- Custom compounding capabilities across Elastomers and RTVs:
- **Specialty additives (conductivity, radiopaque)**
 - **Custom physicals (durometer, compression set, and more)**
 - **Color effects (aqueous, metallic, fluorescence, and opaque)**
 - **Adhesion promotion**
 - **Custom cure rheology**

GE Advanced Materials Silicones

To find out more about silicone, call
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1. USP Class VI equivalent testing (Intramuscular implantation, intracutaneous injection, and systemic injection) done on cured sheets of a single, representative lot of material. For Topcoat testing, Topcoat was applied to cured sheets of LIM6040. RTV108 and RTV118 are compositionally compliant to 21CFR177.2600 and cured sheets were prepared from a representative lot of each material for extractives testing. Although lot-to-lot variance would not be expected to show different test results, this information should not be construed as warranty of fitness for use.