ResinFormulators
INNOVATIVE MATTERS

# RF 2969 MOD 7 A/B KIT

RF 2969 Mod 7 is a room temperature curing, electrically conductive epoxy resin system. RF 2969 Mod 7 provides excellent adhesive performance and high electrical and thermally conductive properties. Mod 7 has a higher viscosity and a shorter thin film set time than Mod 4. This material is designed where hot solder applications are impractical or on parts which cannot be subjected to heat. RF 2969 Mod 7 is also effective as a shielding material.

**POPULAR FOR USE IN:**

ELECTRONICS
AEROSPACE
ELECTRIC VEHICLE

## HANDLING PROPERTIES, TYPICAL

| PROPERTY | RF 2969 |
|---|---|
| Mix Ratio: by Weight | 100:50 |
| by Volume | 2:1 |
| Mixed Color | Silver |
| Mixed Viscosity @ 77°F (25°C) | 300,000 (Thixotropic) |
| Pot Life, 100 grams @ 77°F (25°C) | 60 min |
| Cure Schedule | 5-7 Days @ 25°C or 4 Hours @ 65°C |

## PHYSICAL PROPERTIES, TYPICAL CURED PERFORMANCE

| PROPERTY | TEST METHOD | UNIT | VALUE |
|---|---|---|---|
| Al-Al Lap Shear | ASTM D1002 | psi | 1.80E+03 |
| Cured Hardness | | Shore D | 80+ |
| DSC Tg | ASTM E1356 | °C | 68 |
| Volume Resistivity | ASTM B193 | Ohm-cm | 4.50E-03 |
| Stripe Resistance | | Ohm | 0.38 |

### USES & APPLICATIONS

RF 2969 is suitable for electrical circuit connections, grounding of composites or hardware, static dissipation, and RFI shielding.

### SPECIALTY PACKAGING AND DISPENSING

Material is suitable for pre-mixed and frozen and bulk packaging use.

### *Case Study: Cost-effective Silver-filled Epoxy Systems for Modern Electrical Component Design*

*Various aerospace and defense customers were looking for a silver filled epoxy system that would fit new and improved electrical component designs - specifically a product that would wick into extremely small places to complete an electrical connection. The application would require high electrical conductivity, have an ambient or elevated cure formula, and be suitable for electrical circuitry, EMI shielding, or grounding of composites. Resin Formulators began a design and development process where it was decided that multiple versions were needed, including a heat cure and room temperature curing version. After extensive sampling and testing, the desired results were achieved, and the product was commercialized.*

*The resulting product, RF 2969, provided electrical conductivity values from .004-.0004 ohm-cm, and passed NASA outgassing requirements. The solution met the technical needs for new design requirements, and was also recognized as a cost-effective solution for scalability. The product has now been a successful aerospace solution for over 20 years and is qualified to military aircraft, commercial satellite, rocket, and automotive programs.*

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