



ResinFormulators

INNOVATIVE MATTERS

RF 5407

RF 5407 is an easy-to-use, aluminum oxide filled, liquid epoxy resin with excellent electrical insulation properties and high thermal conductivity. RF 5407 can be cured with nearly any hardener to produce a wide range of properties and cure cycles. Regardless of which curing agent is selected, the resultant plastic will have low shrinkage during cure, excellent thermal stability and conductivity, and be strong and durable for casting.



HANDLING PROPERTIES, TYPICAL

PROPERTY	RF 5407
Mix Ratio: by Weight*	100:10.5
by Volume	N/A
Mixed Color	Natural (off-white), White and Black
Viscosity @ 77°F (25°C), cps	110,000 - 150,000
Viscosity @ 140°F (65°C), cps	180,000
Specific Gravity @ 77°F (25°C), cps	2.15 - 2.20
Cure Schedule**	Variable

USES & APPLICATIONS

Potting and bonding where temperature stability, thermal cycling, electrical insulation, and/or thermal conductivity are required. Applications include high voltage relay potting, staking of Li-ion battery cells, and encapsulation of motor windings.

PHYSICAL PROPERTIES, TYPICAL CURED PERFORMANCE WITH RF 24

PROPERTY	TEST METHOD	UNIT	VALUE
Al-Al Lap Shear (25°C)	ASTM D1002	psi	2,600
DMA Tg - Onset	ASTM E1640-13	°C	134
Lap Shear, PA66, Plasma Treat		psi	1,200
CTE (below Tg)	ASTM E831	ppm/°C	44
Volume Resistivity	ASTM D257	Ohm-cm	1.6x10E15
Dielectric Strength	ASTM D149	V/mil	>400

SPECIALTY PACKAGING AND DISPENSING

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

LEARN MORE: Download the TDS or SDS from our TDS SDS Library »

* With RF 24

**Cure: 30 minutes at 82°C plus 2 hours at 121°C

POPULAR FOR USE IN:



COMPOSITES



ELECTRONICS



AEROSPACE



AUTOMOTIVE



ELECTRIC VEHICLE

COMMITMENT TO QUALITY AND SERVICE

GracoRoberts and Resin Formulators are fully qualified to design, manufacture, and distribute products to a variety of industries.

Certifications:

- ISO9001:2015
- AS9100 (Rev. D)
- AS9120 (Rev. B)