## Thermalbond™

Thermalbond™ is a thermally conductive, high strength epoxy adhesive. It provides exceptional adhesion to copper, aluminum, steel, glass, ceramics, and most plastics. Thermalbond™ also has a coefficient of thermal expansion compatible with aluminum, copper, and brass, making it particularly well suited for thermally bonding semiconductors and other components to chassis or heat sinks.

## **ORDERING INFORMATION**

Part number	Net weight
4949G	0.8 oz (25 gram kit)
4950G	1.7 oz (50 gram kit)
4951G	3.5 oz (100 gram kit)
4952G	7.0 oz (200 gram kit)
4953G	4 lbs (1814 grams)

## **MIXING INSTRUCTIONS**

Mix resin thoroughly before removing material. Add 7.1 parts of RT-7 hardener to 100 parts of resin by weight, or 17 parts of RT-7 hardener to 100 parts of resin by volume. Adhesive will set up in:

24 hrs at 25°C (77°F) 1 hr. at 100°C (212°F) 2 hrs. at 65°C (149°F) 30min. at 130°C (266°F)

Note: For maximum electrical and physical properties, a post cure is neccessary. Post cure at room temperature for 4 days or for 4 hours at 93°C (200°F).

## HANDLING CHARACTERISTICS

Typical electrical and physical properties at room temperature with RT-7 hardener

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Green
2.35
25,000 cps
1.34W/(m °C) (0.77 Btu/hr •ft• °F)
29.4°C in/watt
6.34 x 10 <sup>7</sup> Pa (9,2000 psi)
1.44 x 10 <sup>8</sup> Pa (20,9000 psi)
3.17 x 10 <sup>7</sup> Pa (4,6000 psi)
24 x 10°/°C (1.32 x 10°/°F)
0.20
86
1.0 x 10 <sup>16</sup>
59.1 x 10 <sup>3</sup> volts/mm (1500 volts/mil)
6.1
0.020
-65°C to 155°C (-85°F to 311°F)
0.002 in/in
12 months*
2-3 hours
Miller-Stephenson MS 111
Acetone

<sup>\*</sup> Stated shelf life is from date of manufacture. To allow for inventory cycle, product shipped from Aavid will have less than 12 months remaining shelf life. Aavid guarantees a minimum of 3 months remaining shelf life. Please adjust order quantity so all product will be consumed within 3 months of date of shipment.



United Kingdom Tel: +44 1793 401400 email: sales.uk@aavid.com