

TG-N909 Thermal Grease Reliability

1. RA test

Procedure

Tested for thermal resistance using a ASTM D5470 at different condition (room temperature, aging 125 °C, HAST and thermal shock).

1.1 Room temperature @ 25°C

1.2 Thermal Aging @ 125°C (200 hrs, 400 hrs, 700 hrs, 1000 hrs)

1.3 Thermal Aging @ 160°C (200 hrs, 400 hrs, 700 hrs, 1000 hrs)

1.4 Thermal HAST @ 85°C/85%RH (200 hrs, 400 hrs, 700 hrs, 1000 hrs)

During testing and aging, the samples were maintained between two round aluminum disks of one square inch in surface area.

During Aging, clamps were used to hold a constant pressure on the sample.

Results

Code/(Unit : °C-in ² /W)	0 hr	200 hrs	400 hrs	700 hrs	1000 hrs
Room temperature	0.111				
125°C Aging	0.111	0.113	0.111	0.108	0.112
160°C Aging	0.111	0.110	0.112	0.111	0.109
85°C/85%RH	0.111	0.114	0.113	0.114	0.112

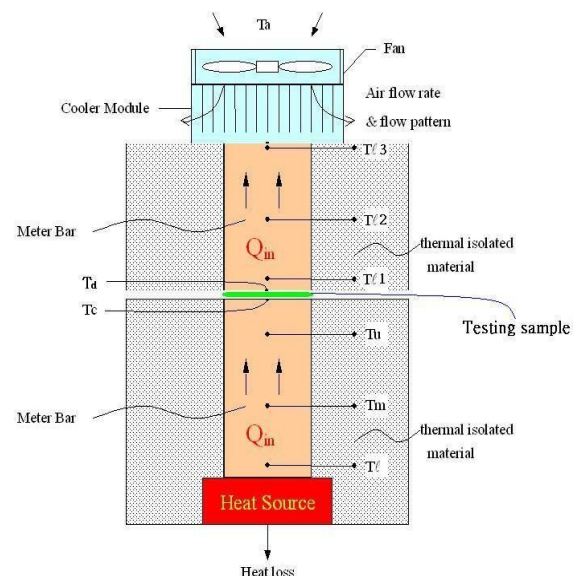
Test method: ASTM D5470

Heat power: 30W

Pressure: 30 psi

Specimen thickness: 0.1mm

Specimen Area: 1 inch²



Note:

The data is for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in applications.

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