



Thermally Conductive Adhesive

Version: 1.0

The slug of the emitter is to be soldered for better thermally conductivity.
If not, please use the thermally conductive adhesive.

We recommend to use the thermally conductive adhesive which has the following features and properties.

Features

- Ease of use
 - One-part, No solvent
- Fast task free
 - 3 minutes at 25°C
- No corrosion
 - Alcohol type of Room Temperature Vulcanizing (RTV)
- Adhesion
 - Excellent adhesion to most materials without use of a primer
- Low volatility
 - Low weight loss of silicone volatiles
- Excellent dielectric properties
 - Cured rubber exhibits good dielectric properties
- Excellent thermal stability and cold resistance
 - Cured rubber provides wide service temperature range

Typical Properties

Specification	Suggested Properties
Take-free time at 25°C	3~10 mimnutes
Specific gravity	< 3 g/cm ²
Thermal conductivity	> 2.5 W/mK
Rth in using	< 1.8 °C/W
Volume resistance	> 1x10 ¹⁴ ohm·cm
Lap shear adhesion strength	> 200 N/cm ²
Tensile strength	> 4 Mpa

* Adhesive should be as thin as possible for better thermally conductivity.

ProLight suggests that the thickness of adhesive must be less than 100 µm.

After ProLight's evaluation of many thermally conductive adhesives, we recommend to use Dow Corning Toray Silicone SE4485.

For more information, refer to the following website.

<http://www.dowcorning.com/>