



# TG-ASD50AB

## Thermally Conductive Gel

REACH Compliant

RoHS Compliant

### Features

- Good thermal conductivity
- Pistol friendly & easy assembly
- A:B=1:1
- Cures at room temperature or with heat

### Applications

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

### Storage

Thermally Conductive Gel has a shelf-life of 12 months from the date of manufacture, as indicated by the lot number, when stored in the original, should be unopened container at or below 25°C.

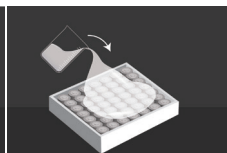
### Operation Manual

#### Pot



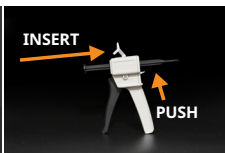
① Mix component A and B.

② Vacuum out air.



③ Pour potting compound.

#### Tube



① Push the latch and insert the stick.



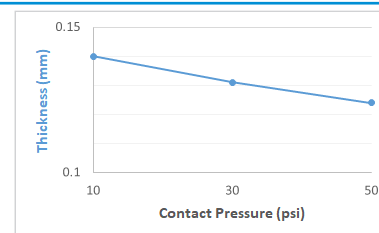
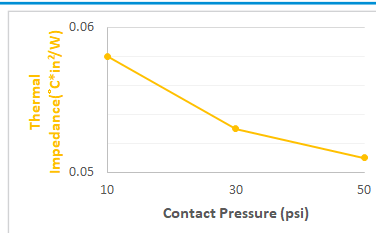
② Put the tube in.



③ Close the cover.

### Properties

#### Curing Contact Pressure, Thermal Impedance, and Thickness



Properties	Unit	TG-ASD50AB	Tolerance	Test Method
Thermal Conductivity	W/m·K	5.0	±0.5	ISO 22007-2
Color	-	A:Green / B:White	-	ASTM D2244
Dielectric Breakdown Voltage	kV/mm	5	±3	ASTM D149
Volume Resistivity	Ohm·m	10 <sup>9</sup>	10 <sup>8</sup> ~10 <sup>10</sup>	ASTMD257
Density	g/cm <sup>3</sup>	3.05	±0.15	ASTM D792
Operating Temperature	° C	-50~+150	-	-
Weight Loss	%	<1	-	By T-Global
Viscosity @1.0rpm	Pa·s	A:250 / B:250	±100	ASTM D7395 ASTM D4287
Elongation	%	>100	-	ASTM D412
Tensile Strength @T3.0mm	kgf/cm <sup>2</sup>	3	-	ASTM D412
Curing Time @25° C	Min	120~240	-	-
Curing Time @50° C	Min	40~60	-	-
Curing Time @80° C	Min	20~40	-	-
Standard Package	-	Pot / Tube	-	-
Mixing Ratio	-	1:1	-	-
Hardness	Shore OO	40	±10	ASTM D2240

► Component A & Component B are mixed material. It is normal to cause precipitation and stratification due to different density. Well mixed component A before use by a flat spatula or other stainless tools to achieve the ideal thermal conductivity.

### T-Global Technonology Co., Ltd.

No.33, Ln. 50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

T +886-3-361-8899 E service@tglobalcorp.com W www.tglobalcorp.com

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