

TECHNICAL DATA SHEET

2073T

Electo 2073T is one-component RTV Silicone based Thermal Adhesive which cures with the moisture in the air at the room temperature. The product has good bonding capability to the most materials, such as metals, ceramics, wood, plastics and glass requiring thermal conductivity.

FEATURES

- Good adhesion to several materials
- Non-corrosive to most of the materials.
- Excellent chemical resistant and weatherability;
- Excellent electrical insulation properties;
- Easy-to-use
- Excellent bonding.
- Excellent temperature resistance ranging from -50 to 200°C operation.
- Self-Extinguishing properties.

APPLICATIONS

- The bonding for electrical and electronic appliances;
- A waterproof adhesion for electrical material.
- The adhesion for equipment to keep out water and dust;
- Used for the insulation and shock absorption of equipment;
- The bonding and fixation to the equipment which require cold and heat resistance.

ADHESION PERFORMANCE

Substrate	Performance	Adhesive strength (Mpa)
Cu	Excellent	1.8
Al	Excellent	2.1
SS	Excellent	2
Brass	Excellent	2
ABS	Excellent	1.8
PET	Excellent	2
PCB	Excellent	1.9
PC	Good	1.1

CURING PARAMETERS

Curing Cond.	1 days	2 days	3 days	4 days	5 days	6 days	7 days
10°C /20%	1.1m	1.8m	2.4m	3mm	3.5m	3.9m	4.1m
23°C /50%	2mm	3.4m	4.4m	5.3m	5.9m	6.3m	6.5m
40°C /85%	2.3m	4.3m	5.9m	6.9m	7.6m	8.1m	8.4m

STORAGE

- Please store the products in a cool and dry place, avoid direct sunlight.
- Please keep out of the reach of children.
- Shelf life is 6 months.

TYPICAL PROPERTY DATA

Property	Unit	ASTM	Value	Range
Uncured properties				
Appearance			White	—
Tack-free time (25°C/5%)	min		15	<20
Viscosity (23°C)	CP	6, 10rpm	210,000	—
Corrosion (Cu)		MIL-A-46146B	None	—
Cured properties at 25°C/50%RH)				
Specific gravity	g/ml	D792	1.5	1.4~1.8
Hardness	Shore A	D2240	75	>60
Tensile strength	Mpa	D412	2.1	>1.8
Elongation	%	D412	120	>80
Adhesive strength	Mpa (Al)	D1002	2.1	>1.5
Volume resistivity	Ω·cm	D257	1.2×10 ¹⁴	>10 ¹³
Dielectric strength	KV/mm	D149	25	>20
Dielectric constant	50Hz	D150	3	2.5~4.0
Dielectric loss	50Hz	D150	0.015	<0.04
D3-D10 content	ppm		< 100	—
Shelf life (< 25°C)	month		6	—
Thermal Conductivity	W/M.K	D5470	1.0	>1.0

SOAKED WATER TEST

Cond.	Dielectric strength(KV/m)	Volume resistivity(Ω·cm)	Surface resistivity(Ω·cm)
Initial	25.5	1.2×10 ¹⁴	1.3×10 ¹³
Soaked 16 hours	24.8	1.0×10 ¹⁴	1.6×10 ¹³

PACKING

Available in 300ml &, 2600ml packing

