Thermally Conductive Silicone Adhesive

TIA0260

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Global Electronic Materials Technology Center

TIA0260 is a one-component silicone adhesive that cures on exposure to atmospheric moisture at room temperatures to form a thermally conductive silicone rubber. The product offers corrosion-free adhesion to metals, including copper, plastics, ceramics, glass, etc. without the use of primers.

Key Features

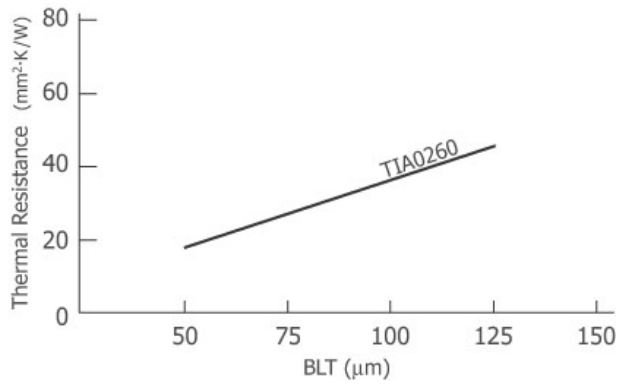
- High thermal conductivity
- Low volatility: reduced low molecular siloxane content
- Non-corrosive to metals (including copper)
- One-component, fast alkoky cure
- Wide operating temperature range: -40~+150°C

Typical Properties

Uncured Properties		
Appearance / Color		Semi-flowable, light gray paste
Viscosity	Pa·s	180
Tack free time (23 °C)	min	10
Cured Properties (7d @ 23°C, 50%RH)		
Thermal Conductivity	W/m·K	2.6
Thermal Resistance (BLT)	mm^2·K/W	18 (50 μ m)
Density	g/m^3	3.00
Hardness (Type A)		93
Tensile Strength	MPa	6.5
Elongation	%	40
Adhesive Strength	MPa	2.6
Volume Resistivity	MΩ·m	7.0×10^6
Dielectric strength	kV/mm	20
Low Volatile Siloxane（D_3-D_{10}）	wt%	0.001

Typical property data values should not be used as specifications.

Thermal Resistance and BLT



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Handling and Safety

- Use appropriate eye protection and gloves when handling this product.
- If ingested, induce vomiting and consult a physician immediately.
- In case of contact to eyes, immediately flush with water for 15 minutes, and consult a physician.
- In case of contact to skin, wipe with cloth or paper, and rinse with soap and water.
- Store the product away from exposure to direct sunlight.
- Keep out of reach of children.