



Technical Data Sheet

ACS Material Thermal Conductive Potting Gel

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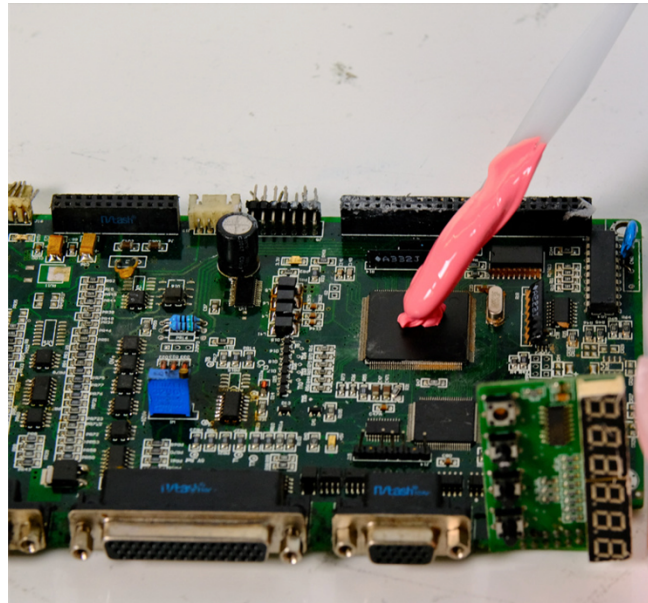
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The dual-component thermal conductive gel filling material with a thermal conductivity ranging from 0.4 to 4W/m*K is suitable for filling, insulation, and potting. The material requires manual mixing of components A and B, which can cure at room temperature or high temperature. After curing, it exhibits good thermal conductivity, insulation, and shock absorption. Additionally, the thermally conductive potting adhesive adopts an organic silicon formulation system, which is non-toxic, odorless, non-corrosive, and complies with RoHS directives and relevant environmental protection requirements.



1. Features

- Good insulation and high/low temperature resistance.
- Flame retardant rating of UL94 V0
- Good maneuverability and flexibility

2. Characterizations

Before Curing			
	Tube 1	Tube 2	Testing Standard
Color	Blue/Optional	White	Visual inspection
Viscosity @ 25°C Rotor	2.5*10 ³ cps	2.0*10 ³ cps	ASTM D445
Density	1.7 g/cc		ASTM D792
After Curing			

Thermal Conductive	0.8 W/m*K	ISO22007-2
Size	600ml	-
Hardness	50 ShoreA	ASTM D792
Flame Retardant Rating	V0	ASTM D2240
Surface Dry Time @ 25°C	90min	UL94
Curing Time @ 25°C	24 h	Manual Tester
Tensile Strength	0.3 MPa	Hardness Tester
Elongation at Time	30%	ASTM D412
Breakdown Voltage	10 kV/mm	ASTM D412
Volume Resistivity	$>10^{12}$ Ohm*cm	ASTM D257
D₄~D₁₀ content	<100 ppm	GC
Recommend Operating Temperature Range	-40 ~ +150 °C	-

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