PAKCOOL® Thermally Conductive Compound TC-260

Key Features and Benefits:

- **Thermal Conductivity: 6.0W/m·K**
- **2-parts thermally conductive compound**
- **Ultra-conforming, designed for fragile and low-stress applications**
- **Room and accelerated curing**
- **100% solids – no cure by-products**
- **Excellent low & high temperature resistance**
- **mechanical & chemical stability**

PAKCOOL® TC-260 is a high performance, thermally conductive，liquid TIM material, supplied as two-component, room or elevated temperature curing system. It is a soft, form-in-place elastomer, ideal for coupling "hot" electronic components and heat sink. Before cure, it flows under pressure like grease. After cure, it won't be pumped out during thermal cycling. The liquid offer infinite thickness with little or no stress during displacement and assembly. It also eliminates the need for specific pad thickness and die-cut shapes for individual applications.

TC-260 consists with liquid A and B. The A component is white, the B component is the colored liquid so as to distinguish A and B are evenly mixed. TC-260 is intended for use in thermal interface applications when a strong structural bond is not required. TC-260 is formulated for low-modulus properties.

Application:

- **LED**
- **Power semiconductors/Power supplies**
- **Automotive electronics**
- **Motion control**
- **Telecommunications**
- **Computer and peripherals**
- **Between heat-generating semiconductors or magnetic components and a heat sink**
- **Area where heat needs to be transferred to a frame, chassis, or other type of heat spreader**

Typical Properties	TC-260	Test Methods
Base material	Silicone	--
Color	A/White B/gray	**Visual**
Mix ratio	1:1	--
Viscosity (cP@25±2℃)	650,000± 250,000	**ASTM D2196-15**
Pot life (min at 25°C)	⩾30	**ASTM D2196-15**
Thermal conductivity (W/m·K)	6.0	**ASTM D5470**
Curing Time (hours@25°C)	24	**ASTM D2240**
Curing Time (min@70°C)	60	**ASTM D2240**
Hardness(Shore OO @150℃,15min)	50±10	**ASTM D2240**
Density(g/ cm^3)	3.3±0.1	**ASTM D792**
Dielectric strength (KV/mm)	≥10	**ASTM D149**
Volume resistivity (Ω·cm)	≥$3x10^{13}$	**ASTM D257**
Continuous Use Temperature (℃)	-50~+150	--
Flammability	V0	**UL 94**

Storage and Transportation

All the products should be stored horizontally. Storage conditions and temperature return time can refer to the following table.

Storage temperature	Shelf life	The time of temperature Return to 25°C
< 0°C	6 months	＞4 h

It can be transport as common liquid chemical under normal temperature, please keep the delivery time within a week.

Packaging:

50ml, 200ml and 400ml cartridge kits are supported. Custom packaging options are also available based on customer requirements.The plastic mixers are supported to mix the A&B compounds.

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