

TM Series

One-Part Dispensable Gap Filler

TM series one-part dispensable gap fillers are a kind of silicone thermal conductive products with strong plasticity. The application process can be made into sheet products with high compression rate or semi-flow state to meet the automatic dispensing process according to the needs of customers. It has high efficiency of thermal conductivity and excellent caulk effect, and is mainly used in low pressure and the demand for silicon volatilize.



FEATURES / BENEFITS

- 3.0 - 8.0 W/m.K
- No cure required
- Highly compliant
- Low pressure vs. deflection
- High volume applications

TYPICAL APPLICATIONS

- Networking and Telecommunications
- IT: Notebooks, Tablets, Memory Modules
- Industrial: LEDs, Power Supplies
- Automotive: Control Modules, Turbo Actuators
- Consumer Electronics: Gaming Systems, LCD TVs, Displays

Typical Properties				
Attribute	Value			Test Method
	TM300	TM400	TM500	-
Composition	Ceramic filler + Silicone			
Color	Green	Pink	Red	Visual
Density(g/cc)	2.9	3.4	3.5	ASTM D792
Usage Temperature(°C)	-60 to 200	-40 to 200	-40 to 150	-
Flammability	V-0	V-0	V-0	UL 94
Electrical				
Breakdown Voltage (kV/mm)	≥5.0	> 6.0	> 5.0	ASTM D149
Volume Resistivity(Ω.cm)	10 ¹⁴	10 ¹⁰	10 ¹⁰	ASTMD257
Thermal				
Thermal Conductivity(W/m.K)	3.0	4.2	5.0	ISO 22007-2
Thermal Resistance (°C * in ² /W) @50psi	< 0.31	< 0.1	≤0.04	ASTM D5470



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Typical Properties				
Attribute	Value			Test Method
	TM600	TM700	TM800	-
Composition	Ceramic filler + Silicone			
Color	Orange	Blue	Pink	Visual
Density(g/cc)	3.4	3.2	3.3	ASTM D792
Usage Temperature(°C)	-50 to 150	-50 to 150	-40 to 150	-
Flammability	V-0	V-0	V-0	UL 94
Electrical				
Breakdown Voltage (kV/mm)	≥4.5	> 4.0	> 5.0	ASTM D149
Volume Resistivity(Ω.cm)	/	10 ¹⁴	10 ¹²	ASTMD257
Thermal				
Thermal Conductivity(W/m.K)	6.0	7.0	8.0	ISO 22007-2
Thermal Resistance (°C * in ² /W) @50psi	0.05	0.045	0.05	ASTM D5470

Purchasing information

- Packing specification: 300 ml Cartridge/ 1 Kg Jar / 20 KG Pail

Directions for use

- Stir prior to use
- Application surface should be clean and free of dust, dirt or oils.
- When using material from jar or pail, the container should be sealed and closed immediately after usage to prevent foreign material contamination.
- Follow storage instruction for unused material.
- Application bond line should not exceed 6mm.
- Avoid contact with the eyes.
- Product is nontoxic

Storage

- Store in a cool, dry, well-ventilated place.

Shelf life

- Shelf life of the product is 6 months after date of shipment.

