

# TF Series

## Two-part dispensable gap filler

TF series is a two-part, 1:1 mixed thermal conductive gel. Curing at room temperature lends itself to high volume automation. Typical applications are where high tolerances are present and designs require reduced mechanical stresses.



## TYPICAL APPLICATIONS

### FEATURES / BENEFITS

- 1.2 – 6.0 W/m.K
- Room temperature cure
- Highly compliant
- Low pressure vs. deflection
- High volume 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
	TF120	TF200	TF300	TF400	TF600	-
Composition	Ceramic filler + Silicone					
Color (A/B)	White/Light Yellow	White/Yellow	White/Light Blue	Blue/White	Erythrine/White	Visual
Density(g/cc)	2.5	2.9	3.0	3.0	3.4	ASTM D792
Viscosity (cps) A/B	Part A:30,000~60,000 Part B:30,000~60,000	Part A:550,000 Part B:550,000	Part A:130,000 Part B:130,000	Part A:3,800,000 Part B:3,800,000	-	ASTM D2196
Hardness (Shore OO)	45	50	50	50	60	ASTM D2240
Usage Temperature(°C)	-40 to 200	-40 to 150	-40 to 200	-40 to 150	-40 to 150	-
Flammability	V-0	V-0	V-0	V-0	V-0	UL 94
Electrical						
Breakdown Voltage (kV/mm)	≥7.0	≥5.0	> 7.0	> 5.0	> 6.0	ASTM D149
Dielectric Constant@1MHz	6.5	5.5	7.0	5.0	7.0	ASTM D150
Volume Resistivity(Ω.cm)	10 <sup>13</sup>	≥10 <sup>12</sup>	10 <sup>13</sup>	10 <sup>12</sup>	10 <sup>12</sup>	ASTMD257
Thermal						
Thermal Conductivity(W/m.K)	1.2	2.0	3.0	4.0	6.0	ISO 22007-2

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