

**TIF™ 020-19** is a soft silicone putty thermal gap filler, which blends with exclusive formula, that offers superior thermal performance, and compressibility.

Due to **TIF™ 020-19** is made by high viscosity silicon oil, that can prevent thermal formula separate from it. Besides, compared with traditionally thermal pad, it can control bonded shifting issue much better.

**TIF™ 020-19** operation mold is similar as grease, such as silkprint and screen print or automatic injected facility.

**TIF™ 020-19** can be applied on chip micro processor, PPGAs, Micro BGA package, BGA package, DSP chip, LED lighting and other high power electric component.

## Feature

- › Thermal conductivity: **2.0 W/mK**
- › Soft, very low compression
- › Low thermal impedance
- › Operate automatically
- › Proven long-term reliability

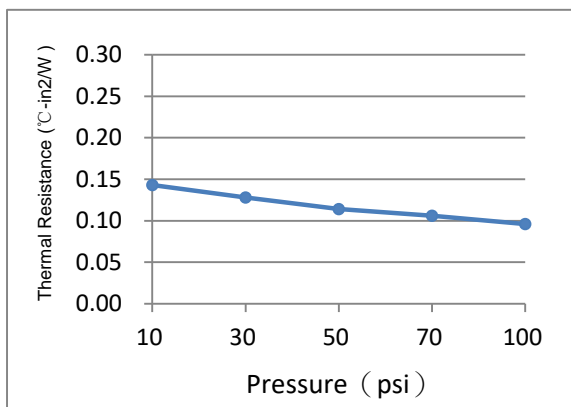
## Application

- › Heat-sink & frame
- › LED backlight module · LED lighting
- › High speed hardware driver
- › Micro heat pipe › Vehicel engine controller
- › Telecom industry › Semiconductor automatic laboratory equipment.

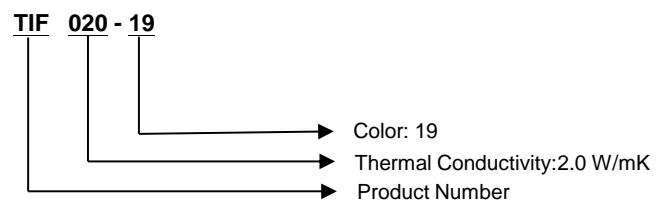
## TIF™020-19 Property

Color	Yellow	Visual
Construction & Composition	Ceramic filled silicon material	*****
Viscosity	4500,000cps	GB/T 10247
Specific Gravity	2.6 g/cc	ASTM D297
Thermal conductivity	2.0 W/mK	ISO 22007-2
Thermal diffusivity	1.070 mm <sup>2</sup> /s	ISO 22007-2
Specific heat capacity	2.2 MJ/m <sup>3</sup> K	ISO 22007-2
Continuous Use Temperature	-45 ~200°C	*****
Dielectric breakdown strength	200 V/mil	ASTM D149
Flame Rating	94V0	E331100
Outgassing, %TML	0.85%	ASTM E595

## psi. vs. Thermal Resistance



## Product Identification:



## Product Specification:

•30 cc/pc, 98 pc/box; 300 cc/pc 6 pc/box

We offer the custom packaged in syringes for automated dispensing applications. Please contact us for confirming.

If you want to know our thermal Products, you can visit our website : <http://www.ziitek.com>



Gap Fillers | Pouring sealant | Silicon tape | Thermally Conductive paste | Flake graphite | Thermally Conductive Insulators | Shielding Materials  
Thermally Conductive plastic | Thermally Conductive Adhesive Tapes

### Canada:

Tel: +001-604-2998559  
E-mail: sales@thermazig.com

### Taiwan :

Tel: +886-2-22771007  
Fax: +886-2-22771075  
E-mail: frances@ziitek.com.tw

### Dongguan:

Tel: +86-769-38801208  
Fax: +86-769-83791290  
E-mail: angus@ziitek.com

### Kunshan:

Tel: +86-512-57816297  
Fax: +86-512-57816327  
E-mail: kelvin@ziitek.com

### Chengdu:

Tel: +86-28-62379168  
Fax: +86-28-62379168  
E-mail: david\_cd@ziitek.com