



TIF™ 020AB-19S Series is a highly thermal conductive, liquid gap filling material. It is provided with two-component and different temperature curing systems. The product is supplied as highly thermal conductive, soft and elastomer for coupling on electrical devices modules. Heat can transmit to the metal housing or dissipation plate from the separate elements or even the entire PCB, which in effect enhances the efficiency and life-time of the heat-generating electronic components. It is liquid approach offers variety of thickness, replacing individual die-cut and specific pad thickness. Different from grease, the cured product is dry and can be touched. It can be intended for use in thermal applications.

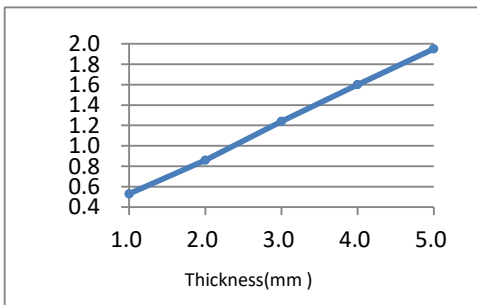
Features

- › Good thermal conductivity: **2.0 W/mK**
- › Two-part formulation for easy storage
- › Excellent low and high temperature mechanical and chemical stability
- › Ultra-conforming low-stress interface application
- › Ambient or accelerated cure schedules
- › Optimized shear thinning characteristics for ease of dispensing

Application

- › Computer and peripherals
- › Telecommunications
- › Automotive electronics
- › Thermally conductive vibration dampening
- › Heat sink and any heat generating semiconductor

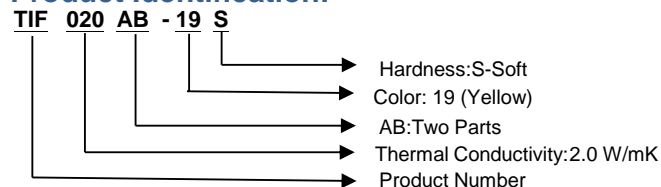
Thermal impedance



Typical Properties of TIF™ 020AB-19S Series

Typical Uncured Material		
PROPERTY	NUMERICAL	TEST METHOD
Color/Part A	White	Visual
Color/Part B	Yellow	Visual
Viscosity as Mixed	550 Pa·s	GB/T 10247
Density	3.2 g/cm ³	ASTM D792
Mix Ratio	1:1	-
Shelf Life@25°C	6 months	-
Cure Schedule		
Pot Life @ 25°C	30 min	Ziitek Test Method
Cure @ 25°C	60 min	Ziitek Test Method
Cure @ 100°C	30 min	Ziitek Test Method
Cure Properties		
Color	Yellow	Visual
Hardness	45 Shore OO	ASTM D2240
Continuous Use Temp	-45 ~ 200°C	Ziitek Test Method
Voltage Strength	275 V/mil	ASTM D149
Dielectric Constant	3.8	ASTM D150
Volume Resistivity	≥ 1.0*10 ¹² Ohm-cm	ASTM D257
Flame Rating	V-0	UL94
Thermal Conductivity	2.0 W/mK	ISO22007-2
Specific heat capacity	2.3 MJ/m ³ K	ISO22007-2

Product Identification:



Product Specification

50 cc/pc, 48 pc/box; 400 cc/pc, 9 pc/box

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

Thermally Conductive Materials | Thermally Conductive Plastics | Heat Generating Materials | Shielding Materials | Foaming Silica Gel | Die-Cutting Products

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