



BERGQUIST microTIM mTIM 1028

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PRODUCT DESCRIPTION

BERGQUIST microTIM mTIM 1028 provides the following product characteristics:

Technology	Silicone thermoset
Appearance	Tan
Thickness	25±5, µm
Application	Thermal management, , microTIM
Operating Temperature	-40 to 125°C
Product Benefits	<ul style="list-style-type: none"> • Good durability • Constant thermal performance up to 500 POM insertions and pulls • Elastomeric • Resistant to abrasion

TYPICAL APPLICATIONS

- Heat sinks used in riding cage assemblies used in switches, servers, and routers
- Aluminum and copper heatsinks with electroless Nickel plating ASTM B733 Type IV, Class 1, SCO, with a minimum of 1 µm thickness
- Heatsinks requirements: ISO flatness <75 µm and surface roughness < 3 µm

BERGQUIST microTIM mTIM 1028 is a durable, thermally conductive thin film coating applied on the heat sink contact surface. It is specially formulated to enhance thermal performance and durability of heat generating devices, such as pluggable optical modules, and aluminum heat sink assembly.

BERGQUIST microTIM mTIM 1028 provides robustness and resilience to the repeated pull and plug action of insertion devices while delivering good thermal impedance.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Film Thickness, Optical Profilometer, µm	25 ± 5
Silicone Extraction, NEBS	Pass
Durability Performance, area abraded, %	<20
Extraction Force, MTS test system set-up, lb-f	<11.2
UL Flammability Rating	UL 94 V-0

Electrical Properties

Volume Resistivity, ASTM D257, Gohm-meter	>1
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Thermal Performance

Thermal Performance, °C/W:

5°C improvement over metal to metal interface baseline at 16W power measured on TE 2299940-3 and QSFP-SR4 POM

3 to 4°C improvement over metal to metal interface baseline at 20W power measured on Molex HS and QSFP-DD POM

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

STORAGE

Storage information may be indicated on the product container labeling.

Optimal Storage: 25°C.

If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb/F}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{N/mm}^2 = \text{MPa}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local Henkel representative for assistance and recommendations on the specifications of this product.

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