



BERGQUIST microTIM mTIM 1013

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PRODUCT DESCRIPTION

Dielectric Coated Metal Substrate Optimizes Performance.

Technology	Silicone thermoset
Appearance	Tan
Thickness	24 μm
Application	Thermal management, microTIM
Operating Temperature	up to 175°C

FEATURES AND BENEFITS

 Durability: Consistent thermal performance up to 500 POM insertion and pulls.

TYPICAL APPLICATIONS

- Heat sinks used in riding cage assemblies used in switches, servers, and routers
- Aluminum heat sinks with Alodine Type 2, Class 1 A, ROHS certified surface finish
- Flatness coating interface requirements: ISO Flatness
 475 μm and Surface Roughness
 475 μm

BERGQUIST microTIM mTIM 1013 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 1013 provides robustness and resilience to the repeated pull and plug action of insertion devices while delivering good thermal impedance. This film is elastomeric and resists abrasion and functions on a wide range of service temperatures from to -40 to +175°C.

TYPICAL PROPERTIES OF CURED MATERIAL Physical Properties

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Film Thickness, Optical Profilometer, µm	24 ± 3
Silicone Extraction, NEBS	Pass
Durability Performance, mass loss, %	<15
Extraction Force, MTS test system set-up, lb-f	<15
Flammability Rating, UL 94	Pending

Electrical Properties

Volume Resistivity, ASTM D257, Gohm-meter >1

Thermal Performance

Thermal Performance, 5°C improvement over 0.33 metal to metal interface baseline at 16W power, measured on TE 2299940-3, °C/W

GENERAL INFORMATION

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

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

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

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb/F N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

Disclaimer

Note:

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