

BERGQUIST® TGR 4000EI

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PRODUCT DESCRIPTION

BERGQUIST® TGR 4000EI is an electrically insulating, high performance thermal interface compound that provides the following product characteristics:

Technology	Silicone grease
Appearance	Green
Product benefits	• Low thermal impedance and thermal resistance • Excellent reliability • Printable and dispensable in manual or automated process • Electrical insulation
Application	IGBT, Power module, Telecom, Computing, Consumer electronics
Operating temperature range, °C	-40 to 150

BERGQUIST® TGR 4000EI is a thermally conductive interface material based on silicone system for electronics cooling applications. Other high watt density applications will benefit from the extremely low thermal impedance. It is also designed for stencil printing or dispensing on IGBT applications.

TYPICAL PROPERTIES

Physical properties

Viscosity, Parallel Plate Rheometer, 0.5mm HT @25°C, 10/s Pa.s	153
Density, ASTM D792, g/cc	2.9

Thermal properties

Thermal conductivity, ISO 22007-2, HOT DISK, W/m*K	3.8
Thermal impedance ASTM D5470, 40psi @80°C, °C*cm²/W	0.074

Electrical properties

Volume resistivity, ASTM D527 @500V, ohm.cm	2.06 x 10 ¹¹
Dielectric strength, ASTM D149, V/mm	4,000

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. For best results parts to be covered should be clean and free of oil and debris.
2. Apply appropriate material to substrate so that there is enough material to cover 100% of the surface between the component and the heat sink.
3. Place the heat sink on top of the component and secure with clips, screws or other hardware.

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 the specifications of this product.

Storage

Store product in an unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal storage: 24°C. Storage greater than 40°C can adversely affect product properties.

Material removed from the package may be contaminated during use. Do not return product to the original package. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. 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
 µm / 25.4 = mil
 N x 0.225 = lb
 N/mm x 5.71 = lb/in
 N/mm² x 145 = psi
 MPa x 145 = psi
 N·m x 8.851 = lb·in
 N·m x 0.738 = lb·ft
 N·mm x 0.142 = oz·in
 mPa·s = cP

Approval and certificate

Please contact Henkel representative for related approval or certificate of this product

Data ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH

Disclaimer

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