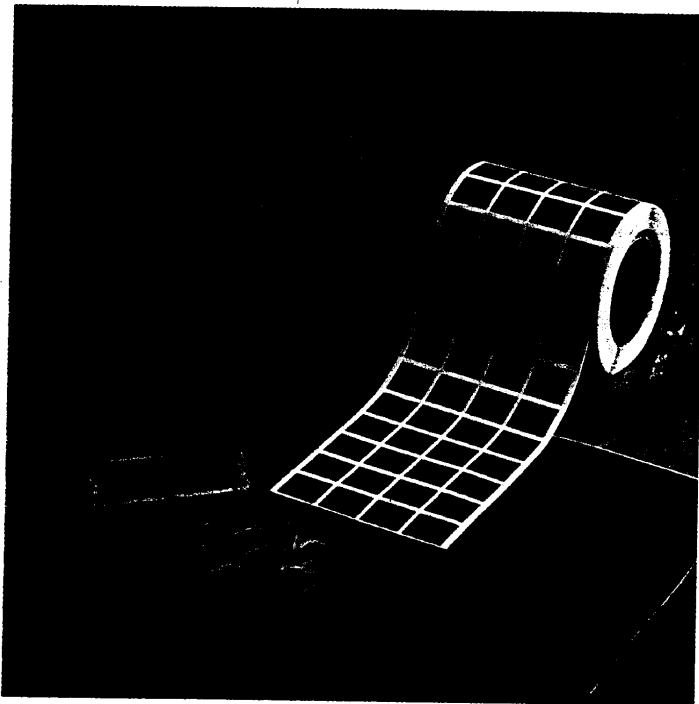


HI-FLOW™ 625

Electrically Insulating, Thermally Conductive Phase Change Material



Bergquist Hi-Flow 625 is a film reinforced phase change material. The product consists of a thermally conductive 65°C phase change compound coated on an electrically insulating film. Hi-Flow 625 is designed to be used as a thermal interface material between electronic power devices that require electrical isolation and a heat sink. The film reinforcement makes Hi-Flow 625 easy to handle, and the 65°C phase change temperature of the coating material eliminates shipping and handling problems. Hi-Flow 625 has a continuous use temperature of 150°C.

HI-FLOW™ 625 is coated on both sides of the Bergquist proprietary film substrate.

HI-FLOW™ 625 is used in applications where electrical insulation is required.

HI-FLOW™ 625 handles like a Sil-Pad® at room temperature, and flows like high quality grease at elevated temperature.

HI-FLOW™ 625 is Tack Free at production temperatures.

HI-FLOW™ 625 is Scratch Resistant at production temperature and does not require a protective liner in most shipping situations.

HI-FLOW™ 625 has the thermal performance of 2-3 mil mica and grease assemblies.

HI-FLOW™ 625 is available in punch parts, sheets or rolls, with or without pressure sensitive adhesive.

Bergquist Hi-Flow™ 625

| Physical Properties | Typical Value | (mm) | Test Method |
|----------------------------|---------------|-----------|-------------|
| Color | Green | | Visual |
| Thickness of Substrate | 0.005 in. | (0.13) | ASTM D 374 |
| Tensile Strength | 30 Kpsi | (210 Mpa) | ASTM D 882A |
| Elongation | 60% | | ASTM D 882A |
| Phase Change Temperature | 65°C | | DSC |
| Continuous Use Temperature | 150°C | | |

Thermal

| | | | |
|---|---------------------------|----------------------------|-------------------------|
| Thermal Cond. of Coating | 0.8 W/m-K | | ASTM D5470 |
| Thermal Cond. of Composite | 0.4 W/m-K | | ASTM D5470 ¹ |
| Thermal Resistance (°C-in ² -W ⁻¹) | 0.25 C-in ² /W | (1.6 C-cm ² /W) | ASTM D5470 |

Electrical

| | | | |
|----------------------------|-------------------------|--|-----------|
| Breakdown Voltage | 4000 Volt | | ASTM D149 |
| Dielectric Constant, 100HZ | 3.5 | | ASTM D150 |
| Volume Resistivity | >10 ¹⁰ ohm-m | | ASTM D257 |

Adhesive

| | | | |
|---------------|---------|-----------|------------|
| Peel Strength | 70 g/in | (28 g/cm) | ASTM D1876 |
| Release Peel | 25 g/in | (10 g/cm) | ASTM D1876 |

1. Sample run at 70°C.

All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers' and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

The World Leader in Thermal Management

THE BERGQUIST COMPANY

5300 Edina Industrial Boulevard
Minneapolis, MN 55439
Tel: (612) 835-2322 • Fax: (612) 835-4156
CALL TOLL FREE: 1-800-347-4572
Website: www.bergquistcompany.com

Rev. 092898 Hi-Flow™ Patent Pending
© Copyright 1998, The Bergquist Company

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [bergquist company manufacturer](#):

Other Similar products are found below :

[SIL-PAD 2000 150MMX150MM SHEET](#) [GP2000S40-0.040-02-4/4](#) [GPEMI1.0-0.060-01-0816](#) [SPA2000-0.020-00-1012](#) [TGP6000ULM-0.125-12-0816](#) [803265](#) [GPEMI1.0-0.040-01-0816](#) [GP3500ULM-G-0.100-12-0816](#) [TGP12000ULM-0.080-00-0808](#) [GP1500-0.160-02-0816](#) [TGP3000ULM-0.080-02-0816](#) [SIL-PAD K6 300MMX300MM SHEET](#) [GP1500-0.200-02-0816](#) [SP980-0.009-00-1212](#) [GPEMI1.0-0.100-01-0816](#) [GPA3000-0.125-01-0816](#) [TGP12000ULM-0.100-00-0808](#) [TGP12000ULM-0.060-00-0808](#) [TGP3000ULM-0.120-02-0816](#) [803263](#) [GP1000SF-0.100-02-0816](#) [GPHC1000-0.010-02-0816](#) [GP1500S30-0.100-02-0816](#) [LF2000-00-00-30CC](#) [TGP3000ULM-0.100-02-0816](#) [TGP12000ULM-0.125-00-0808](#) [803269](#) [2015-54](#) [GPVOUS-0.080-00-4/4](#) [SP1200-0.016-AC-1212](#) [HF625-0.005-AC-1212](#) [SPA1500-0.010-00-4/4](#) [GP1500S30-0.250-02-0816](#) [SPA2000-0.015-AC-1012](#) [GP3500ULM-G-0.080-12-0816](#) [GPVO-0.160-01-0816](#) [GP1500S30-0.125-02-0816](#) [BP660P-0.008-00-1112](#) [LF3800LVO-00-150CC](#) [803790](#) [803266](#) [BP100-0.005-00-1/1](#) [SP1200-0.012-AC-1212](#) [SP1500ST-0.012-02-1012](#) [GP3500ULM-0.100-02-0816](#) [GF2000-00-600-50CC](#) [803262](#) [GPVOUS-0.160-AC-0816](#) [GPVOUS-B-0.040-01-0816](#) [803268](#)