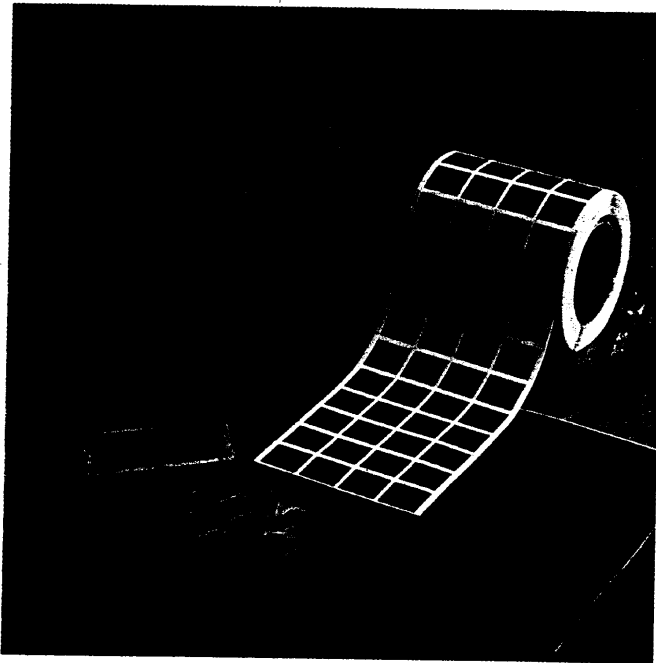


# HI-FLOW™ 625

Electrically Insulating, Thermally Conductive Phase Change Material



## 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 <sup>1</sup>
Thermal Resistance (°C-in <sup>2</sup> -W <sup>-1</sup> )	0.25 C-in <sup>2</sup> /W	(1.6 C-cm <sup>2</sup> /W)	ASTM D5470

### Electrical

Breakdown Voltage	4000 Volt		ASTM D149
Dielectric Constant, 100HZ	3.5		ASTM D150
Volume Resistivity	>10 <sup>10</sup> 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.

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.

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](http://www.bergquistcompany.com)

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