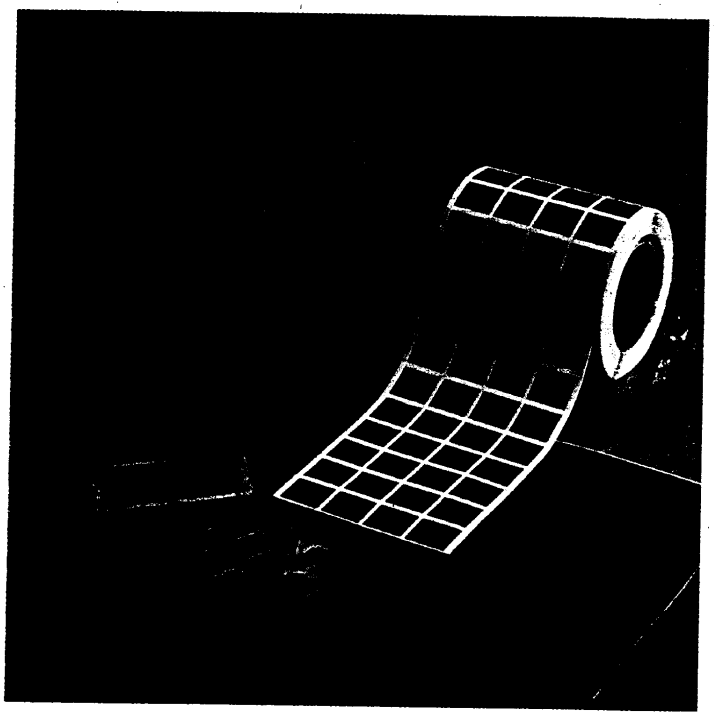
HI-FLOW™ 625

New!

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[1]
Thermal Resistance ($°C\text{-}in^2\text{-}W^{-1}$)	0.25 $C\text{-}in^2/W$	(1.6 $C\text{-}cm^2/W$)	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.

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.

The World Leader in Thermal Management

THE BERGQUIST COMPANY

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Rev. 092898 Hi-Flow™Patent Pending

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