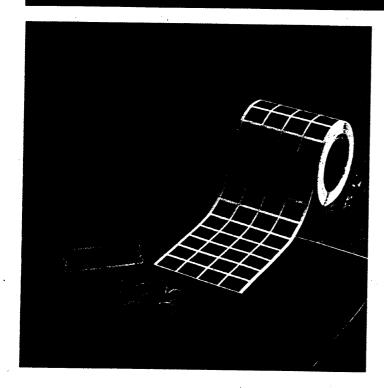
HI-FLOW[™]

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 [Vipical 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 D54701
Thermal Resistance (°C-in²-W-1)	0.25 C-in²/W	

Electrical						
Breakdown Voltage	4000 Volt	ASTM D149				
Dielectric Constant, 100HZ	3.5	ASTM D150				
Volume Resistivity	>1010 ohm-m	ASTM D257				

Adhesive 1					
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.

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The World Leader in Thermal Management

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