Hi-Flow[®] II5-AC

Fiberglass-Reinforced, Phase Change Thermal Interface Material

Features and Benefits

- Thermal impedance: 0.37°C-in²/W (@25 psi)
- Can be applied directly to a cold heat sink
- One side adhesive-coated to aid in positioning
- · Fiberglass reinforced

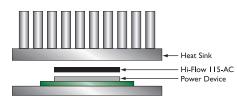


Bergquist Hi-Flow II5-AC is a thermally conductive fiber reinforced phase change material. The product consists of a thermally conductive 65°C phase change compound coated on a fiberglass web, and an adhesive coating on one side for attachment to a cold heat sink. There is no need to preheat the heat sink to apply the Hi-Flow II5-AC.

Hi-Flow 115-AC is designed as a thermal interface material between a computer processor and a heat sink. The pressure sensitive adhesive makes it simple to apply in high volume to heat sinks and the 65°C phase change temperature eliminates shipping and handling problems.

Hi-Flow 115-AC requires no protective liner for shipping or handling. The Hi-Flow coating has excellent handling characteristics at room temperature, and can withstand the handling and shipping process without protection.

Hi-Flow 115-AC handles like a Sil Pad at room temperature and flows like high-quality grease at elevated temperatures.



TYPICAL PROPERTIES OF HI-FLOW 115-AC					
IMPERIAL VALUE		METRIC VALUE		TEST METHOD	
Gray		Gray		Visual	
Fiberglass		Fiberglass		_	
0.0055		0.139		ASTM D374	
40		40		ASTM D882A	
900		6		ASTM D882A	
302		150		_	
149		65		ASTM D3418	
ELECTRICAL					
300		300		ASTM D149	
3.5		3.5		ASTM D150	
1010		1010		ASTM D257	
V-O		V-O		U.L. 94	
0.8		0.8		ASTM D5470	
THERMAL PERFORMANCE vs PRESSURE					
sure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		1.16	1.04	0.94	0.85
Thermal Impedance (°C-in²/W) (2)		0.37	0.35	0.27	0.15
	IMPERIA Gr	Gray Fiberglass 0.0055 40 900 302 149 10 1.28 10 1.28 10 1.28 1.28	IMPERIAL VALUE METRIC Gray G Fiberglass Fiber 0.0055 0.1 40	IMPERIAL VALUE METRIC VALUE Gray Gray Fiberglass Fiberglass 0.0055 0.139 40 40 900 6 302 150 149 65 300 300 3.5 3.5 1010 1010 V-O V-O URE URE sure (psi) 10 25 50 e (°C/W) 1.28 1.16 1.04	IMPERIAL VALUE METRIC VALUE TEST M Gray Gray Vis Fiberglass Fiberglass - 0.0055 0.139 ASTM 40 40 ASTM 900 6 ASTM 302 150 - 149 65 ASTM 300 300 ASTM 3.5 3.5 ASTM V-O V-O U.L 0.8 0.8 ASTM URE URE URE Sure (psi) 10 25 50 100 2 (°C/W) 1.28 1.16 1.04 0.94

I) This is the measured thermal conductivity of the Hi-Flow coating. It represents one conducting layer in a three-layer laminate. The Hi-Flow coatings are phase change compounds. These layers will respond to heat and pressure induced stresses. The overall conductivity of the material in post-phase change, thin film products is highly dependent upon the heat and pressure applied. This characteristic is not accounted for in ASTM D5470. Please contact Bergquist Product Management if additional specifications are required.

2) The ASTM D5470 (Bergquist modified) test fixture was used and the test sample was conditioned at 70°C prior to test. The recorded value includes interfacial thermal resistance. These values are provided for reference only. Actual application performance is directly related to the surface roughness, flatness and pressure applied.

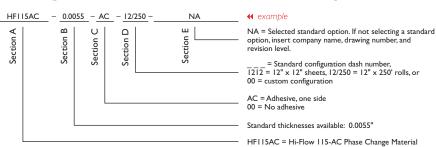
Typical Applications Include:

- Computer and peripherals
- As a thermal interface where bare die is exposed and needs to be heat sinked

Configurations Available:

- Sheet form, die-cut parts, and roll form
- With pressure sensitive adhesive

Building a Part Number



Note: To build a part number, visit our website at www.bergquistcompany.com.

Hi- Flow®: U.S. Patents 6,197,859 and 5,950,066



www.bergquistcompany.com

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Standard Options