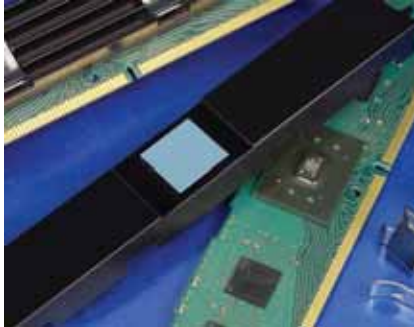


Tacky, High Performance, Un-Reinforced Phase Change TIM

## Features and Benefits

- Thermal impedance: 0.05°C-in<sup>2</sup>/W (@25 psi)
- High thermal conductivity: 3.0 W/mk
- Phase change softening temp 52°C
- Naturally tacky
- Tabulated for ease of assembly



Hi-Flow 565UT is a naturally tacky, thermally conductive phase change material which is supplied in an easy to use tabulated pad form. In the application the material undergoes a phase change softening, starting near 52°C. The phase change softening feature improves handling characteristics prior to a facilitated assembly. At application temperatures and pressures, Hi-Flow 565UT wets out the thermal interfaces producing a very low thermal impedance.

The thermal performance of Hi-Flow 565UT is comparable to the best thermal greases. Hi-Flow 565UT is provided at a consistent thickness to ensure reliable performance. Hi-Flow 565UT can be applied in high volumes to the target surface via low pressure from a roller or manual application.

TYPICAL PROPERTIES OF HI-FLOW 565UT						
PROPERTY	IMPERIAL VALUE	METRIC VALUE	TEST METHOD			
Color	Blue	Blue	Visual			
Reinforcement Carrier	None	None	—			
Thickness (inch) / (mm)	0.005, 0.010	0.127, 0.254	ASTM D374			
Continuous Use Temp (°F) / (°C)	257	125	—			
Phase Change Softening Temp (°F) / (°C)	126	52	ASTM D3418			
<b>ELECTRICAL</b>						
Flame Rating (1)	V-O	V-O	U.L. 94			
<b>THERMAL</b>						
Thermal Conductivity (W/m-K) (2)	3.0	3.0	ASTM D5470			
<b>THERMAL PERFORMANCE vs PRESSURE</b>						
	Pressure (psi)	10	25	50	100	200
TO-220 Thermal Performance (°C/W)		0.37	0.35	0.34	0.30	0.26
Thermal Impedance (°C-in <sup>2</sup> /W)(3)		0.09	0.05	0.03	0.02	0.02
1) Pending. 2) 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. 3) The ASTM D5470 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:

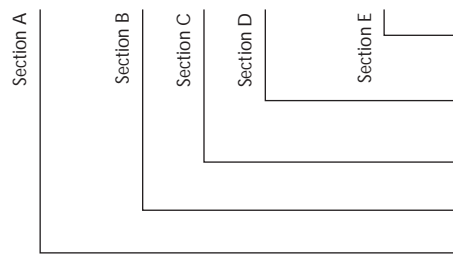
- Processor lid to heat sink
- Processor die to lid or heat sink
- FBDIMM to heat spreader

## Configurations Available:

- Tabulated in roll form, kiss-cut parts - no holes
- Hi-Flow 565UT is limited to a square or rectangular part design. Dimensional tolerance is +/- 0.20 inch (0.5mm)

## Building a Part Number

HF565UT - 0.005 - 02 - 00 - ACME10256 Rev a



## Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

\_\_ \_\_ = Standard configuration dash number, 11/250 = 11" x 250' rolls, or 00 = custom configuration

02 = Natural Tack

Standard Thickness Available = 0.005", 0.010"

HF565UT = Hi-Flow 565UT Phase Change Material

Note: To build a part number, visit our website at [www.bergquistcompany.com](http://www.bergquistcompany.com).

Hi-Flow<sup>®</sup>: U.S. Patent 6,197,859 and others



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

The Bergquist Company - North American Headquarters  
18930 West 78th Street  
Chanhassen, MN 55317  
Phone: 800-347-4572  
Fax: 952-835-0430

The Bergquist Company - European Headquarters  
Bramenberg 9a, 3755 BT Eemnes  
Netherlands  
Phone: 31-35-5380684  
Fax: 31-35-5380295

The Bergquist Company - Asia  
Room 15, 8/F Wah Wai Industrial Centre  
No. 38-40, Au Pui Wan Street  
Fotan, Shatin, N.T. Hong Kong  
Ph: 852.2690.9296  
Fax: 852.2690.2344

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.