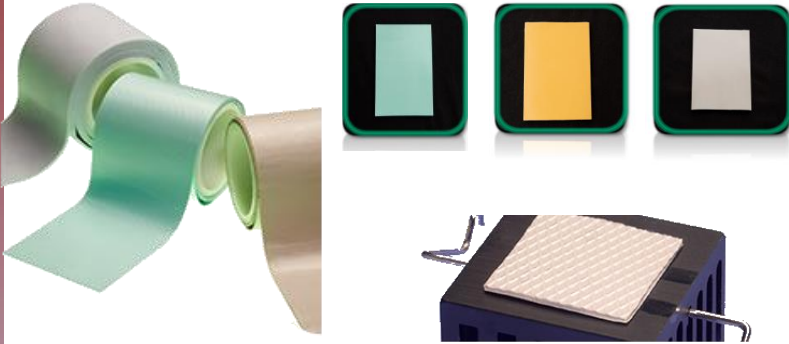


ulTIMiFlux Thermal Gap Filling Pad



SILICONE BASED THERMALLY CONDUCTIVE GAP FILLER



ulTIMiFluxTM 

FEATURES AND BENIFITS

- Excellent Thermal Conductivity
- Natural Tackiness – no need for adhesive
- Excellent Compression Characteristics
- Good Wet-Out and Superb Flexibility
- Excellent Converting Properties
- RoHS and HF Compliant

Wakefield-Vette's *ulTIMiFlux* line of thermal interface materials offer high performance, low cost, configurability and custom sizes for your thermal system needs. Thermal Interface Materials (TIM) are a secondary material installed between the heat sink and the device which are designed to improve the thermal transfer to the heat sink. Regardless of how flat or smooth the device and heat sink are, there will always be small air voids between the two surfaces. Since air is a not a great conductor of heat, a TIM replaces the air and fills the voids. There are many types of TIMs and each has its best case usages. Wakefield-Vette's line of thermal gap filling pads are intended to fill a large void between a device and the heat sink. A gap pad is a compressible material most commonly used when there are multiple devices to be contacted to the heat sink, but all the different device heights make it difficult to use a thin material. These materials come in a variety of thicknesses, conductivities, and durometers to meet a wide range of needs.

Part Number Configurator: PL-Thickness- W/ m K- Foot Print – Hypersoft Option

| WV Part Number | Description | Size | Thermal Conductivity | Hardness (Shore 00) |
|----------------|---|-------------------|----------------------|---------------------|
| PL-05-1-254 | 0.5mm Thickness 1 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 1 W/m K | 5 |
| PL-05-1-1016 | 0.5mm Thickness 1 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 1 W/m K | 5 |
| PL-1-1-254 | 1.0mm Thickness 1 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 1 W/m K | 5 |
| PL-1-1-1016 | 1.0mm Thickness 1 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 1 W/m K | 5 |
| PL-2-1-254 | 2.0mm Thickness 1 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 1 W/m K | 5 |
| PL-2-1-1016 | 2.0mm Thickness 1 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 1 W/m K | 5 |
| PL-05-3-254-H | 0.5mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | 3 W/m K | 20 |
| PL-05-3-1016-H | 0.5mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | 3 W/m K | 20 |
| PL-05-3-254 | 0.5mm Thickness 3 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 3 W/m K | 35 |
| PL-05-3-1016 | 0.5mm Thickness 3 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 3 W/m K | 35 |
| PL-1-3-254-H | 1.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | 3 W/m K | 20 |
| PL-1-3-1016-H | 1.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | 3 W/m K | 20 |
| PL-1-3-254 | 1.0mm Thickness 3 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 3 W/m K | 35 |
| PL-1-3-1016 | 1.0mm Thickness 3 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 3 W/m K | 35 |
| PL-2-3-254-H | 2.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | 3 W/m K | 20 |
| PL-2-3-1016-H | 2.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | 3 W/m K | 20 |
| PL-2-3-254 | 2.0mm Thickness 3 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 3 W/m K | 35 |
| PL-2-3-1016 | 2.0mm Thickness 3 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 3 W/m K | 35 |
| PL-05-5-254-H | 0.5mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | 5 W/m K | 40 |
| PL-05-5-1016-H | 0.5mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | 5 W/m K | 40 |
| PL-05-5-254 | 0.5mm Thickness 5 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 5 W/m K | 45 |
| PL-05-5-1016 | 0.5mm Thickness 5 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 5 W/m K | 45 |
| PL-1-5-254-H | 1.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | 5 W/m K | 40 |
| PL-1-5-1016-H | 1.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | 5 W/m K | 40 |
| PL-1-5-254 | 1.0mm Thickness 5 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 5 W/m K | 45 |
| PL-1-5-1016 | 1.0mm Thickness 5 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 5 W/m K | 45 |
| PL-2-5-254-H | 2.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | 5 W/m K | 40 |
| PL-2-5-1016-H | 2.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | 5 W/m K | 40 |
| PL-2-5-254 | 2.0mm Thickness 5 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | 5 W/m K | 45 |
| PL-2-5-1016 | 2.0mm Thickness 5 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | 5 W/m K | 45 |

Custom Sizes Available Upon Request: www.wakefield-vette.com

ulTIMiFlux Thermal Gap Filling Pad



SILICONE BASED THERMALLY CONDUCTIVE GAP FILLER

Part Number Configurator: **PL-Thickness- W/ m K- Foot Print – Hypersoft Option**



| WV Part Number | Description | Size | Color | Shelf Life | Thermal Conductivity | Dielectric Breakdown Strength | Hardness (Shore 00) |
|----------------|---|-------------------|-------|------------|----------------------|-------------------------------|---------------------|
| PL-05-1-254 | 0.5mm Thickness 1 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Gray | 3 Years | 1 W/m K | >5KVac | 5 |
| PL-05-1-1016 | 0.5mm Thickness 1 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Gray | 3 Years | 1 W/m K | >5KVac | 5 |
| PL-1-1-254 | 1.0mm Thickness 1 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Gray | 3 Years | 1 W/m K | >5KVac | 5 |
| PL-1-1-1016 | 1.0mm Thickness 1 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Gray | 3 Years | 1 W/m K | >5KVac | 5 |
| PL-2-1-254 | 2.0mm Thickness 1 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Gray | 3 Years | 1 W/m K | >5KVac | 5 |
| PL-2-1-1016 | 2.0mm Thickness 1 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Gray | 3 Years | 1 W/m K | >5KVac | 5 |



| WV Part Number | Description | Size | Color | Shelf Life | Thermal Conductivity | Dielectric Breakdown Strength | Hardness (Shore 00) |
|----------------|---|-------------------|-------|------------|----------------------|-------------------------------|---------------------|
| PL-05-3-254-H | 0.5mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | Green | 3 Years | 3 W/m K | >5KVac | 20 |
| PL-05-3-1016-H | 0.5mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | Green | 3 Years | 3 W/m K | >5KVac | 20 |
| PL-05-3-254 | 0.5mm Thickness 3 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Green | 3 Years | 3 W/m K | >5KVac | 35 |
| PL-05-3-1016 | 0.5mm Thickness 3 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Green | 3 Years | 3 W/m K | >5KVac | 35 |
| PL-1-3-254-H | 1.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | Green | 3 Years | 3 W/m K | >5KVac | 20 |
| PL-1-3-1016-H | 1.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | Green | 3 Years | 3 W/m K | >5KVac | 20 |
| PL-1-3-254 | 1.0mm Thickness 3 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Green | 3 Years | 3 W/m K | >5KVac | 35 |
| PL-1-3-1016 | 1.0mm Thickness 3 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Green | 3 Years | 3 W/m K | >5KVac | 35 |
| PL-2-3-254-H | 2.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | Green | 3 Years | 3 W/m K | >5KVac | 20 |
| PL-2-3-1016-H | 2.0mm Thickness 3 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | Green | 3 Years | 3 W/m K | >5KVac | 20 |
| PL-2-3-254 | 2.0mm Thickness 3 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Green | 3 Years | 3 W/m K | >5KVac | 35 |
| PL-2-3-1016 | 2.0mm Thickness 3 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Green | 3 Years | 3 W/m K | >5KVac | 35 |



| WV Part Number | Description | Size | Color | Shelf Life | Thermal Conductivity | Dielectric Breakdown Strength | Hardness (Shore 00) |
|----------------|---|-------------------|-------|------------|----------------------|-------------------------------|---------------------|
| PL-05-5-254-H | 0.5mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | Gold | 3 Years | 5 W/m K | >5KVac | 40 |
| PL-05-5-1016-H | 0.5mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | Gold | 3 Years | 5 W/m K | >5KVac | 40 |
| PL-05-5-254 | 0.5mm Thickness 5 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Gold | 3 Years | 5 W/m K | >5KVac | 45 |
| PL-05-5-1016 | 0.5mm Thickness 5 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Gold | 3 Years | 5 W/m K | >5KVac | 45 |
| PL-1-5-254-H | 1.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | Gold | 3 Years | 5 W/m K | >5KVac | 40 |
| PL-1-5-1016-H | 1.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | Gold | 3 Years | 5 W/m K | >5KVac | 40 |
| PL-1-5-254 | 1.0mm Thickness 5 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Gold | 3 Years | 5 W/m K | >5KVac | 45 |
| PL-1-5-1016 | 1.0mm Thickness 5 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Gold | 3 Years | 5 W/m K | >5KVac | 45 |
| PL-2-5-254-H | 2.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 25.4mm X 25.4mm | Gold | 3 Years | 5 W/m K | >5KVac | 40 |
| PL-2-5-1016-H | 2.0mm Thickness 5 W/m K Hypersoft Silicone Gap Filler | 101.6mm X 101.6mm | Gold | 3 Years | 5 W/m K | >5KVac | 40 |
| PL-2-5-254 | 2.0mm Thickness 5 W/m K Silicone Gap Filler | 25.4mm X 25.4mm | Gold | 3 Years | 5 W/m K | >5KVac | 45 |
| PL-2-5-1016 | 2.0mm Thickness 5 W/m K Silicone Gap Filler | 101.6mm X 101.6mm | Gold | 3 Years | 5 W/m K | >5KVac | 45 |

Custom Sizes Available Upon Request: www.wakefield-vette.com

ulTIMiFlux Thermal Gap Dispensable Filling Pad



SILICONE BASED THERMALLY CONDUCTIVE GAP FILLER



The Wakefield-Vette Dispensable Gap Filling material is an ultra-soft thermally conductive silicone supplied as a two- component liquid dispensable material. The thixotropic gap filler is designed to remain where it is dispensed, conform to the surface and cure in place providing thermal protection at thin bond lines with little to no stress on the components during assembly.

Features:

- Dispensable Two-Part Silicone
- High Temperature Resistance
- Low Stress on Components Shock Absorbing
- Low VoC
- RoHS and HF Compliant

| Wakefield Vette Part Number | Description | For Use with Hardware |
|-----------------------------|---|-----------------------|
| PL-BT-601-50M | ulTIMiFlux 1 W/M K 2-PART DISPENSIBLE SILICONE GAP FILLER | BT-01-50M, BT-02-50M |
| PL-BT-603-50M | ulTIMiFlux 3 W/M K 2-PART DISPENSIBLE SILICONE GAP FILLER | BT-01-50M, BT-02-50M |
| PL-BT-605-50M | ulTIMiFlux 5 W/M K 2-PART DISPENSIBLE SILICONE GAP FILLER | BT-01-50M, BT-02-50M |

PL-BT-601-50M

Construction / Properties:

| Property | Value | Test Method |
|---|--|-------------|
| Color (after mixing) | Gray | Visual |
| Mix Ratio | 1 : 1 by weight | -- |
| Viscosity (as mixed) [DVT2 Spindle HA 06 at 10 RPM/25 C] | 64000 cP | WI-7.6-6 |
| Thermal Conductivity (as cured) | 1.0 W/m K | QSP-749 |
| Hardness (Shore 00) (as cured) | 5 | QSP-731 |
| Dielectric Breakdown Strength (as cured) | >400 V/mil | QSP-750 |
| Cure Conditions | 15 hours (at 25 C) 30 min (at 100C) | -- |
| Continuous Use Conditions | -60 – 200 C | WI-8.2-13 |
| Flammability Rating (as cured) | V-0 | UL 94 |

Custom Sizes Available Upon Request: www.wakefield-vette.com

PL-BT-603-50M

Construction / Properties:

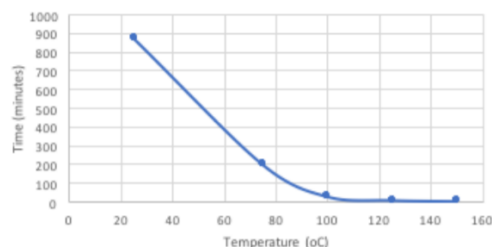
| Property | Value | Test Method |
|--|--|-------------|
| Color (after mixing) | Green | Visual |
| Mix Ratio | 1 : 1 by weight | -- |
| Viscosity (as mixed) [DVT2 Spindle HA 07 at 5 RPM/25 C] | 230000 cP | WI-7.6-6 |
| Thermal Conductivity (as cured) | 3.0 W/m K | QSP-749 |
| Hardness (Shore 00) (as cured) | 35 | QSP-731 |
| Dielectric Breakdown Strength (as cured) | >400 V/mil | QSP-750 |
| Cure Conditions | 15 hours (at 25 C) 30 min (at 100C) | -- |
| Continuous Use Conditions | -60 – 200 C | WI-8.2-13 |
| Flammability Rating (as cured) | V-0 | UL 94 |

PL-BT-605-50M

Construction / Properties:

| Property | Value | Test Method |
|--|--|-------------|
| Color (after mixing) | Gold | Visual |
| Mix Ratio | 1 : 1 by weight | -- |
| Viscosity (as mixed) [DVT2 Spindle HA 07 at 5 RPM/25 C] | 230000 cP | WI-7.6-6 |
| Thermal Conductivity (as cured) | 5.0 W/m K | ASTM D5470 |
| Hardness (Shore 00) (as cured) | 45 | ASTM D2240 |
| Dielectric Breakdown Strength (as cured) | >400 V/mil | ASTM D149 |
| Cure Conditions | 15 hours (at 25 C) 30 min (at 100C) | -- |
| Continuous Use Conditions | -60 – 200 C | WI-8.2-13 |
| Flammability Rating (as cured) | V-0 | UL 94 |

Cure Time



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