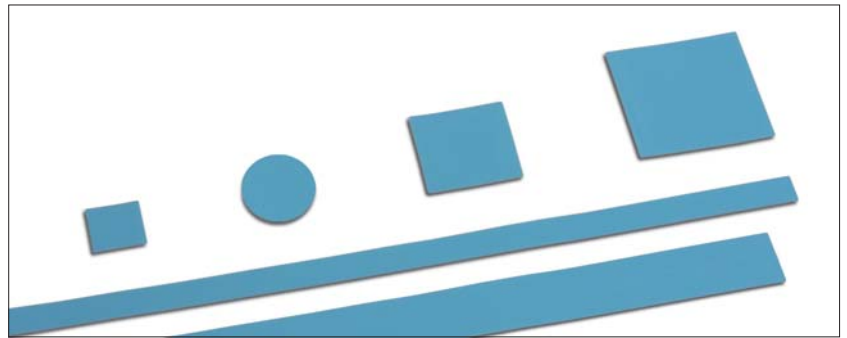


Thermally Conductive Adhesive Transfer Tapes for LED Modules



3M™ Type 8810 and Bergquist Bond-Ply® 100

Thermally Conductive Adhesive Transfer Tapes are designed to provide a preferential heat-transfer path between heat-generating components and heat-sinks or other cooling devices (e.g. heat-sinks).

These tapes are tacky pressure sensitive adhesives loaded with thermally conductive ceramic fillers that do not require a heat cure cycle to form an excellent bond to many substrates. Only pressure is needed to form an excellent bond and thermal interface.

The specialized chemistry renders them modestly soft and able to wet to many surfaces, allowing them to conform well to non-flat substrates, provide high adhesion, and act as a good thermal interface. The specialized acrylic chemistry of the tapes provides for excellent thermal stability of the base polymer. The thermally conductive tapes are provided on a silicone treated polyester release liner for ease of handling and die cutting.

The tapes offer excellent adhesive performance with good wetting and flow onto many substrate surfaces. These tapes offer both good thermal conductivity and good electrical insulation properties.

For detailed information and application guidelines see 3M or Bergquist datasheet for thermally conductive adhesive transfer tapes (8805; 8810; 8815; 8820; www.3m.com or Bergquist Bond-Ply® 100; www.bergquistcompany.com).

| LED modules | Thermally conductive adhesive transfer tapes | | | | | |
|-----------------------|--|---------------|---------------|---------------|---------------|---------------|
| | 19x19 | Ø28 | 34x34 | 49x49 | 306x11 | 320x35 |
| | 529158 | 536248 | 529155 | 529157 | 529156 | 533815 |
| WU-M-291 | | | | | X | |
| WU-M-292 | | | | | X | |
| WU-M-293 | X | | | | | |
| WU-M-294 | | | X | | | |
| WU-M-295 | | | | X | | |
| PowerEmitter | | X | | | | |
| TriplePowerEmitter | | | | X | | |
| LEDLine High Power | | | | | | X |
| High Power RGB Triple | | | | X | | |
| High Power RGB Line | | | | | | X |

| Type | Ref. No. | Size mm | Tape thickness mm | Liner thickness µm | Thermal conductive W/mK | Volume resistivity Ω/cm |
|---------------------|---------------|---------|-------------------|--------------------|-------------------------|-------------------------|
| Adhesive pad 19x19 | 529158 | 19x19 | 0.25 | 37.5-50 | 0.6 | 3.9x10 ¹¹ |
| Adhesive pad Ø28 | 536248 | Ø28 | 0.25 | 37.5-30 | 0.6 | 3.9x10 ¹¹ |
| Adhesive pad 34x34 | 529155 | 34x34 | 0.25 | 37.5-50 | 0.6 | 3.9x10 ¹¹ |
| Adhesive pad 49x49 | 529157 | 49x49 | 0.25 | 37.5-50 | 0.6 | 3.9x10 ¹¹ |
| Adhesive pad 306x11 | 529156 | 306x11 | 0.25 | 37.5-50 | 0.6 | 3.9x10 ¹¹ |
| Adhesive pad 320x35 | 533815 | 320x35 | 0.20 | 76 | 0.8 | 10 ¹¹ |

This technical information for 3M™ Thermally Conductive Adhesive Transfer Tape 8810 or Bergquist Bond-Ply® 100 should be considered representative or typical only and should not be used for specification purposes.

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification. Please find further detailed information at www.vs-optoelectronic.com.