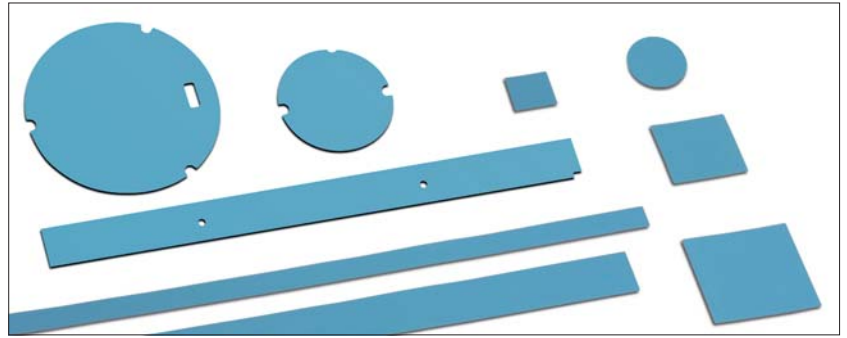


Thermally Conductive Adhesive Transfer Tapes for LED Modules

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).

Type	Ref. No.	Size mm	Tape thickness mm	Liner thickness μm	Thermal conductive R_{th} K/W	For VS LED modules
For round LED modules						
Adhesive pad $\varnothing 28$	536248	$\varnothing 28$	0.25	37.5–30	1.0	PowerEmitter
Adhesive pad $\varnothing 43$	536977	$\varnothing 43$	0.20	76	0.5	TriplePowerEmitter $\varnothing 45\text{mm}$, $\varnothing 50\text{mm}$
Adhesive pad $\varnothing 44$	544511	$\varnothing 44$	0.25	37.5–50	0.5	WU-M-393, WU-M-396
Adhesive pad $\varnothing 63$	539625	$\varnothing 63$	0.25	37.5–50	0.5	High Power 24V RGB Triple
Adhesive pad $\varnothing 75$	543952	$\varnothing 75$	0.25	37.5–50	0.3	FiveLED
Adhesive pad $\varnothing 107$	539624	$\varnothing 107$	0.25	37.5–50	0.1	High Power 24V RGB Flood
Adhesive pad $\varnothing 107$	545096	$\varnothing 107$	0.25	37.5–50	0.1	HeliosFlood WU-M-400
For square LED modules						
Adhesive pad 19x19	529158	19x19	0.25	37.5–50	1.4	WU-M-293
Adhesive pad 34x34	529155	34x34	0.25	37.5–50	0.5	WU-M-294
Adhesive pad 49x49	529157	49x49	0.25	37.5–50	0.3	WU-M-295, TriplePowerEmitter $\varnothing 50\text{mm}$
For linear LED modules						
Adhesive pad 9x49	544510	49x9	0.25	37.5–50	1	WU-M-394, WU-M-397
Adhesive pad 14x199	544509	199x14	0.25	37.5–50	0.2	WU-M-392, WU-M-395
Adhesive pad 306x11	529156	306x11	0.25	37.5–50	0.3	WU-M-291, WU-M-292
Adhesive pad 320x35	533815	320x35	0.20	76	0.1	LEDLine High Power
Adhesive pad 279x24	545094	279x24	0.25	37.5–50	0.1	HeliosLine WU-M-399
Adhesive pad 297x23	539626	297x23	0.25	37.5–50	0.1	High Power 24V RGB Line

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.