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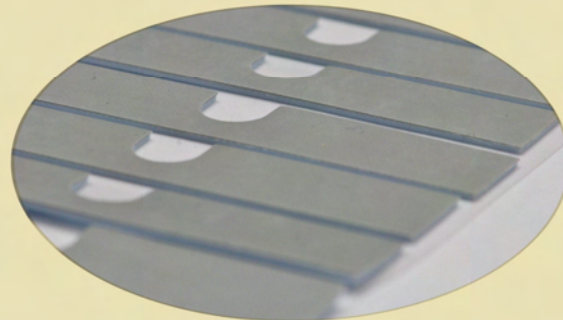
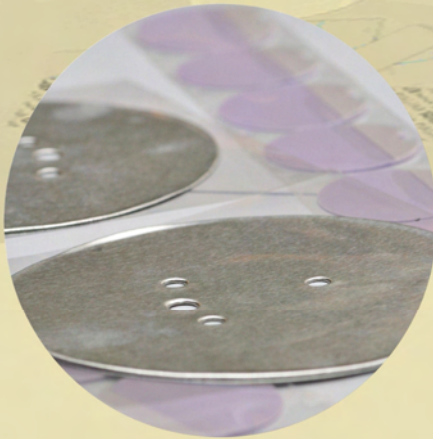
OpTIM™

It is a widely recognized in the electronics industry that thermal interface materials (TIM's) are crucial in maintaining reasonable life and reliability of most heat generating electronic components. As electronic components require increasing watt densities, Schlegel Electronic Materials line of high performance TIM's can provide Design Engineers with solutions to thermal management problems.

Schlegel Electronic Materials OpTIM™ products are a line of thermal interface materials that offer a wide range of thermal performance and physical properties, and can resolve even the most challenging thermal problems. These TIM's have already been widely used in electronic equipment/components including microprocessors, high speed memory modules, micro heat pipe assemblies and LED lighting.

Our manufacturing facility located in Dongguan China is ISO 9001 certified, and supported by our North American and European facilities provide worldwide product coverage. Coupled with the capability of die-cutting products into any shape and size, Schlegel can provide the designer with cost effective and easy-to-use thermal management solutions.

Schlegel's vow is to uphold our attitude of excellent customer service and technical support. We stand ready to meet your thermal needs.



SEM (North America) Inc.

Tel: +1 585-643-2000
Fax: +1 585-427-7216
Address: 806 Linden Avenue
Suite 100, Rochester, NY
14625, USA

SEM Belgium bvba

+32 59 560 270
+32 59 560 271
Sliipesteenweg 28
8432 Middelkerke (Leffinge)
Belguim

SEM (Far East) Ltd.

+852-2686-9872
+852-2686-9728
Unit3, 3/f, Blk A, New Trade Plaza,
6 On Ping Street, Shatin,
N.T., Hong Kong

SEM (Dongguan) Ltd.

+86-769-8356-5686
+86-769-8334-5656
No. 8 Qiaoxin Road,
Qiaotou, Dongguan,
Guandong, China 523525

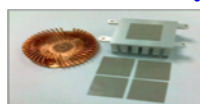
OpTIM™ Thermally Conductive Gap Pad/Fillers



Product	Color	Thickness Range [inch/(mm)]	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OP-7100	Grey/White	0.02"(0.5)-0.20"(5.0)	1.0	30	-40°C~200°C	Yes
OP-7200	Pink/Grey	0.02"(0.5)-0.20"(5.0)	1.2	25	-40°C~200°C	Yes
OP-8100	Blue	0.01"(0.25)-0.20"(5.0)	1.2	60	-40°C~200°C	Yes
OP-8200	Light-Grey	0.01"(0.25)-0.20"(5.0)	1.5	60	-40°C~200°C	Yes
OP-8300	Sky-Blue	0.02"(0.5)-0.20"(5.0)	1.5	25	-40°C~200°C	Yes
OP-8400	Pink	0.02"(0.5)-0.20"(5.0)	2.5	40	-40°C~200°C	Yes
OP-8500	Violet	0.02"(0.5)-0.20"(5.0)	3.0	40	-40°C~200°C	Yes
OP-8500spec1	Violet	0.02"(0.5)-0.20"(5.0)	3.0	20	-40°C~200°C	Yes
OP-8600	Pink	0.02"(0.5)-0.20"(5.0)	3.2	45	-40°C~200°C	Yes
OP-8700	White	0.02"(0.5)-0.20"(5.0)	3.2	45	-40°C~200°C	Yes
OP-8800	Yellow	0.02"(0.5)-0.20"(5.0)	6.0	70	-40°C~200°C	Yes
OP-9400	Grey	0.02"(0.5)-0.12"(3.0)	7.0	50	-40°C~200°C	Yes

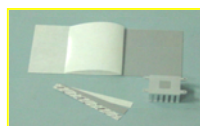


OpTIM™ Thermally Conductive Non Silicone Gap Pad/Filler



Product	Color	Thickness Range [inch/(mm)]	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OP-6200	Grey	0.02"(0.5)-0.20"(5.0)	2.0	60	-40°C~200°C	Yes

OpTIM™ Phase Change Materials



Product	Color	Thickness Range [inch/(mm)]	Thermal Conductivity [W/mK]	Phase Change Temperature Range [°C]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OC-800	White	0.005(0.127)-0.020(0.50)	2.5	50°C~65°C	-40°C~130°C	Yes
OC-7300	Grey	0.005(0.127)-0.020(0.50)	4.0	50°C~65°C	-40°C~130°C	Yes

OpTIM™ Thermally Conductive Insulators



Product	Color	Thickness Range [inch/(mm)]	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OF-1000	Blue	0.009"(0.23)-0.018"(0.45)	1.2	70	-40°C~200°C	Yes
OF2000	White	0.01"(0.25)-0.03"(0.76)	5.0	80	-40°C~200°C	Yes

OpTIM™ Thermally & Electrically Conductive



Product	Color	Thickness Range [inch/(mm)]	Thermal Conductivity [W/mK]	Hardness [Shore 00]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OP-400	Grey	0.006"(0.15)-0.020"(0.50)	2.5	70	-40°C~200°C	Yes

OpTIM™ Thermally Conductive Grease



Product	Color	Coverage Area [cm ² /g]	Thermal Conductivity [W/mK]	Density [g/cm ³]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OG-870	Grey	66.3	7.0	1.98	-40°C~160°C	Yes
OG-880	White	98.9	5.5	1.26	-40°C~160°C	Yes

OpTIM™ Thermally Conductive Putty



Product	Color	Coverage Area [cm ² /g]	Thermal Conductivity [W/mK]	Density [g/cm ³]	Operation Temperature [°C]	Halogen-Free [<700 ppm]
OU-802	White	15.75	3.0	2.7	-40°C~180°C	Yes
OU-801	White	15.7	2.0	2.5	-40°C~180°C	Yes
OU-800	White	14.3	3.5	2.75	-40°C~180°C	Yes

OpTIM™ Thermally Conductive Tape



Product	Color	Thickness Range [inch/(mm)]	Thermal Conductivity [W/mK]	Breakdown Voltage VAC	Peel Adhesion	Halogen-Free [<700 ppm]
TDA-12	White	0.30 mm	0.9	4,000	1,200 g/inch	Yes

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 Unit3, 3/f, Blk A, New Trade Plaza,
 6 On Ping Street, Shatin,
 N.T., Hong Kong

+86-769-83356-5686
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 No. 8 Qiaoxin Road,
 Qiaotou, Dongguan,
 Guangdong, China 523525