

***Manufacturing and Processing
Facility of Thermal Interface Material***

It is a widely recognized fact that thermal interface materials (TIM's) are crucial in maintaining reasonable life and reliability of many heat generating electronic components. As electronic components become higher in performance but more compact in size, research and development of high performance TIM's can assist design engineers in overcoming rigorous heat generation problems.

Schlegel Electronic Materials OpTIM™ is a family of thermal interface materials with a wide selection of thermal performances and physical properties. These TIM's have already been widely used in various electronic equipment/components including advance microprocessors, high speed mass storage device memory modules, micro heat pipe assemblies and LED lighting.

Our ISO 9001 certification system can provide assurance in terms of production process stability and the quality of materials. Coupled with the capability in die-cutting products into specific shapes and sizes, Schlegel can provide the user with cost effective and easy-to-use TIM products.

Schlegel's vow is to uphold our attitude of excellent customer service and stand ready to provide professional advice in material selection and technical support.



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DATA SHEET

Thermal Management Specialist



THERMALLY CONDUCTIVE GAP FILLERS



Model #	Colour	Thickness (inch)	Thermal Conductivity (W/m-K)	Hardness (Shore 00)	UL Flame Class
OP - 8100	Multi-colour	0.01 - 0.20	1.2	60	94 V0
OP - 8200	Light grey	0.01 - 0.20	1.5	60	94 V0
OP - 8300	Blue	0.02 - 0.20	1.5	25	94 V0
OP - 8400	Pink	0.02 - 0.20	2.5	40	94 V0
OP - 8500	Violet	0.02 - 0.20	3.0	40	94 V0
OP - 8600	Pink	0.02 - 0.20	3.2	45	94 HB
OP - 8700	White	0.02 - 0.20	3.2	45	-
OP - 8800	Yellow	0.01 - 0.20	6.0	70	94 HB
OP - 9500	Grey	0.01 - 0.12	14.0	50	94 V1

THERMALLY CONDUCTIVE PHASE CHANGE MATERIALS



Model #	Colour	Thickness (inch)	Thermal Conductivity (W/m-K)	Halogen-Free	Operation Temperature [°C]
OC - 800	White	0.005 - 0.020	2.5	Yes	-40°C~130°C
OC - 7300	Grey	0.005 - 0.020	4.0	Yes	-40°C~130°C

THERMALLY CONDUCTIVE INSULATOR



Model #	Colour	Thickness (inch)	Thermal Conductivity (W/m-K)	Hardness (Shore 00)	Breakdown Voltage (Volt AC)
OI - 1000	Blue, Green	0.009-0.018	1.2	70	> 5000
OI - 2000	White	0.01 - 0.03	5.0	80	> 5000

THERMALLY CONDUCTIVE GREASE



Model #	Colour	Density [g/cm3]	Thermal Conductivity (W/m-K)	Halogen-Free	Operation Temperature [°C]
OG - 870	Grey	1.98	7.0	Yes	-40°C~160°C
OG - 880	White	1.26	5.5	Yes	-40°C~160°C

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