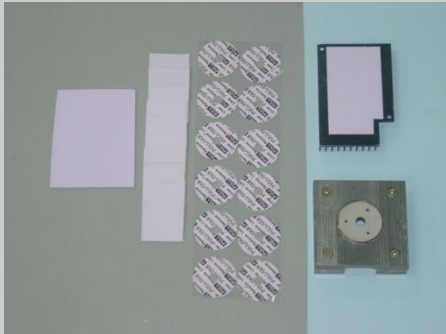


Features and Benefits

- 3.2W/m-K thermal conductivity
- Good compressibility
- Naturally tacky
- Electrically isolating
- RoHS compliant
- Halogen-free



Typical Applications

- Cooling component to the chassis, frame, or other type of heat spreader
- Mass storage device
- Heat pipe assemblies
- RDRAM memory modules
- Motor control
- Telecommunication hardware

Optional Configurations

- Can be die-cut into specific dimensions

OP-8500 Spec 02 is a performance-improved derivative of the original OP-8100 gap pad. While retaining its thermal performance, the oil bleeding rate has been drastically reduced. This special feature is benefited from a revised filler and binder matrix.

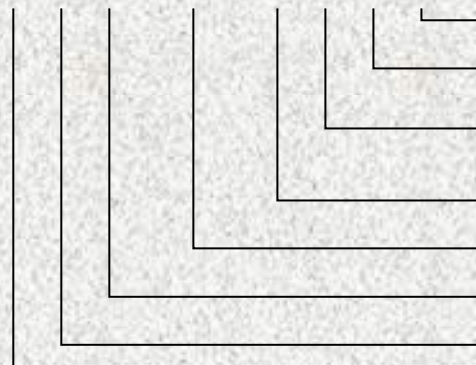
OP-8500 Spec 02 is electrically non-conductive and conforms to UL94 V0 standard. The proprietary formulation of OP-8500 Spec 02 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

Properties	OP-8500 Spec 02	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Violet	Visual
Thickness Range /inch (mm)	0.012"~0.40" (0.305~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm ⁻³	2.98	—
Hardness /Shore 00	50	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	3.2	ASTM D5470 (modified)
Breakdown Voltage /V	>6000 (Thickness ≤ 0.04") >10000 (Thickness ≥ 0.05")	ASTM D149
Volume Resistivity /ohm.cm	8.0 x 10 ¹³	ASTM D257
Dielectric Constant @ 1MHz	12.4	ASTM D150
Shelf Life /Months	24	—
Please contact us for other requirements		

Carrier Treatment	Criteria
Fiber Glass (FG)	Compulsory for ≤ 0.02" (0.5mm)
Rubberized Cloth (RC)	Not Recommended
Pressure Sensitive Adhesive (PSA)	Optional to all thickness
Detachable Adhesive (DA)	Optional to ≥ 0.039" (1.0mm)
Aluminum Foil (AL)	Optional to ≥ 0.039" (1.0mm)
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Optional to all thickness

Product Code and Descriptions

OP 85 XX Spec 02 XX XX -XX XX



Dimensions
 SS = Standard sheet size
Release Liner
 ST = Standard
 OT = Other
PSA
 A1 = One side
 A2 = Both sides
 OT = Other
Carrier
 FG = Fiberglass
 AL = Aluminum foil
 CB = Combination
 OT = Other
Spec 02= Special Derivative #

Thickness (mil)
 00 = Custom thickness
 04 = 40mil

85 = 8500 Series

OP = OPTIM™ gap filler
SEM (Dongguan) Ltd.

SEM (North America) Inc.

Tel: +1 585-643-2000
 Fax: +1 585-427-7216
 Address: 1600 Lexington Ave., Suite 236A,
 Rochester, NY 14606, USA

SEM Belgium bvba

+32 59 560 270
 +32 59 560 271
 Slijpesteenweg 28,
 8432 Middelkerke (Leffinge),
 Belgium

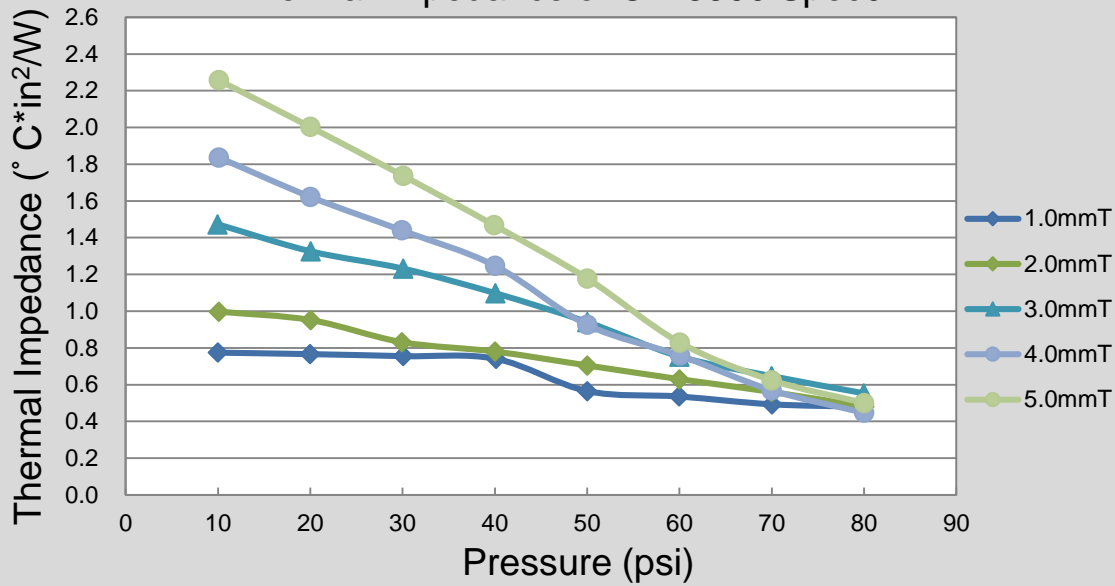
SEM (Far East) Ltd.

+852 2686 9872
 +852 2686 9728
 Unit 3, 3/F, Blk A, New Trade Plaza,
 No. 6 On Ping St., Shatin, N.T.,
 Hong Kong.

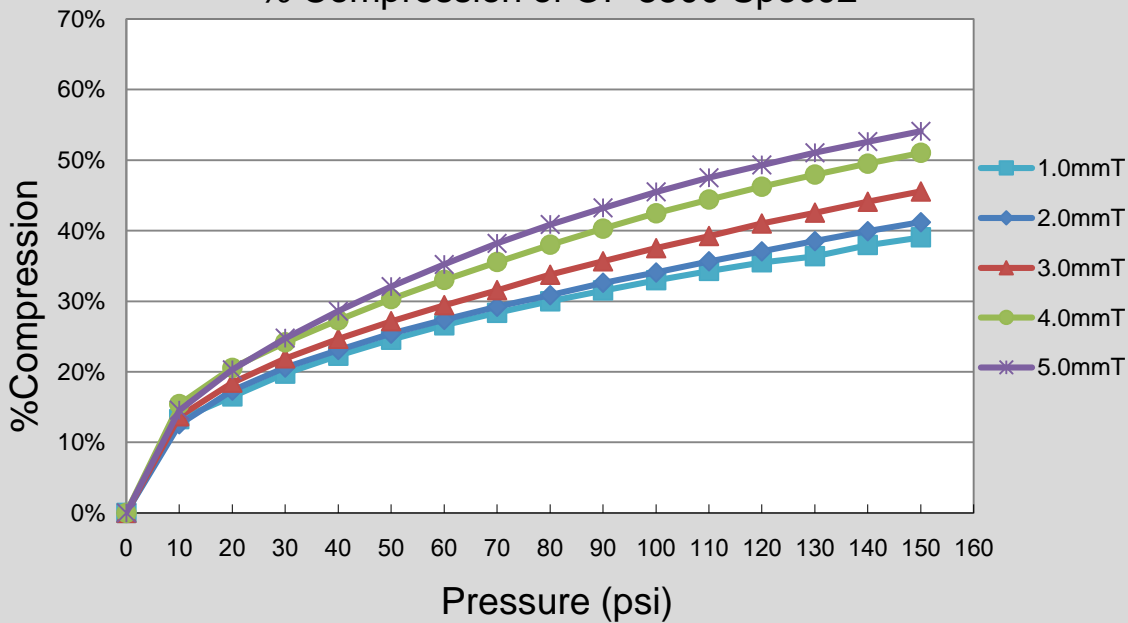
+86-769-8356 5686
 +86-769-8334 2028
 No.8 Qiaoxin Rd., Qiaotou Dongguan,
 Guangdong, China, 523525.

Specifications and appearances may change without notice. All statements, technical information and recommendations herein are based on tests that we believed to be reliable, but the accuracy and completeness are not guaranteed. Before using, user should determine the suitability of the product for its intended use, and the user assumes all risks and liabilities whatsoever in connection therewith. Neither the seller nor the manufacturer shall be liable for any loss or damage, direct, incidental or consequential, including loss of profits or revenues arising from the use or inability to use the product. Any statements or recommendations shall have no effect unless contained in an agreement signed by authorized personnel of the seller and manufacturer.

Thermal Impedance of OP-8500 Spec02



% Compression of OP 8500 Spec02



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