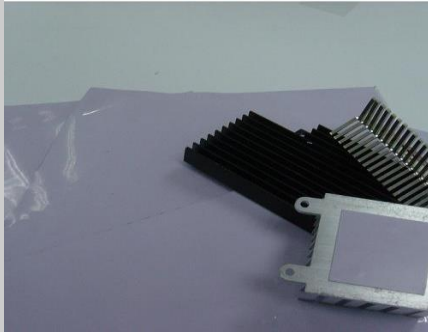


**Features and Benefits**

- Superior thermal performance
- 3.5 W/m-K thermal conductivity
- Electrically isolating
- RoHS compliant
- Halogen-free

**Typical Applications**

- Notebook Computers
- Handheld Portable Electronics
- Micro Heat Pipe assemblies
- Micro Processors, Memory Chips and Graphic Processors
- Motor Control
- Wireless Communication Hardware

**Optional Configurations**

- Can be die-cut into other dimensions

OP-8500 Spec 07 offers good thermal performance and conformability. This material conforms to surface irregularities under low application pressures. It is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

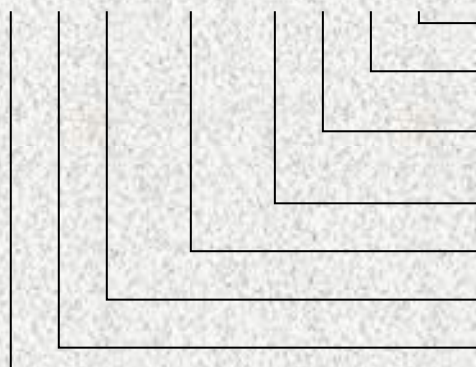
The proprietary formulation of OP-8500 Spec 07 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

Properties	OP-8500 Spec 07	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Violet	Visual
Thickness Range /inch (mm)	0.02"~0.40" (0.508~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm <sup>-3</sup>	3.0	—
Hardness /Shore 00	35	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40°C ~200°C	—
Thermal Conductivity/W.m <sup>-1</sup> .K <sup>-1</sup>	3.5	ASTM D5470 (modified)
Breakdown Voltage /V	>4000 (Thickness = 0.02~0.04") >6000 (Thickness ≥ 0.04")	ASTM D149
Volume Resistivity /ohm.cm	8.3 x 10 <sup>13</sup>	ASTM D257
Dielectric Constant @ 1000Hz	8.0	ASTM D150
Shelf Life /Months	24	—
Please contact us for other special requirements		

Carrier Treatment	Criteria
Fiber Glass (FG)	Compulsory for ≤ 0.02" (0.5mm)
Rubberized Cloth (RC)	Not Recommended
Pressure Sensitive Adhesive (PSA)	Not Recommended
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 07 -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 07 = Special Derivative #**

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

**85 = 8500 Series**  
**OP = OPTIM™ gap filler**

**SEM (North America) Inc.**

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Fax: +1 585-427-7216  
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**SEM Belgium bv**

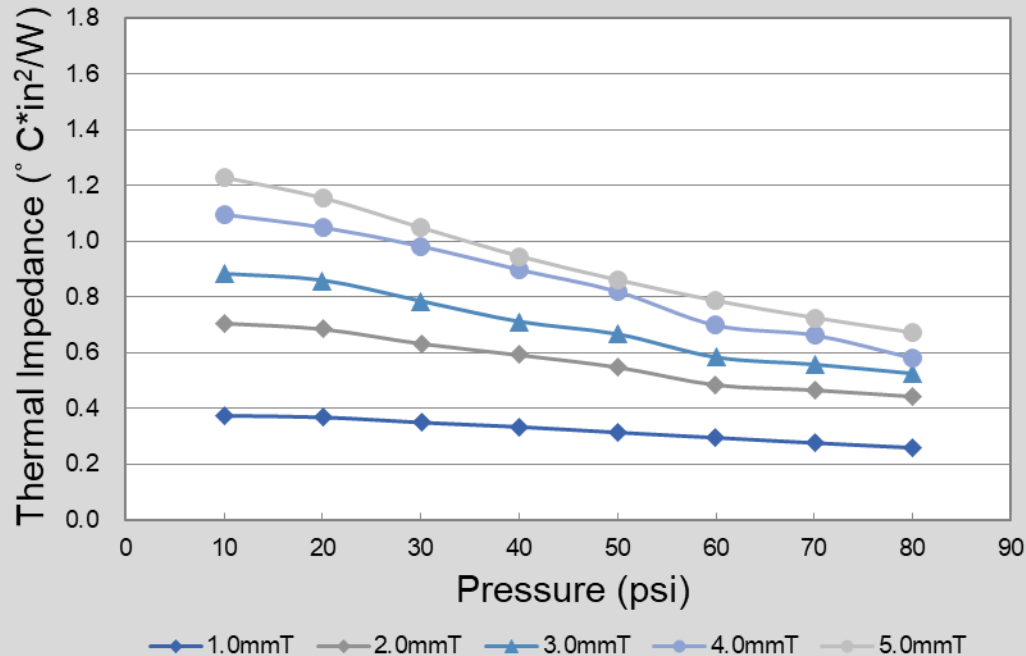
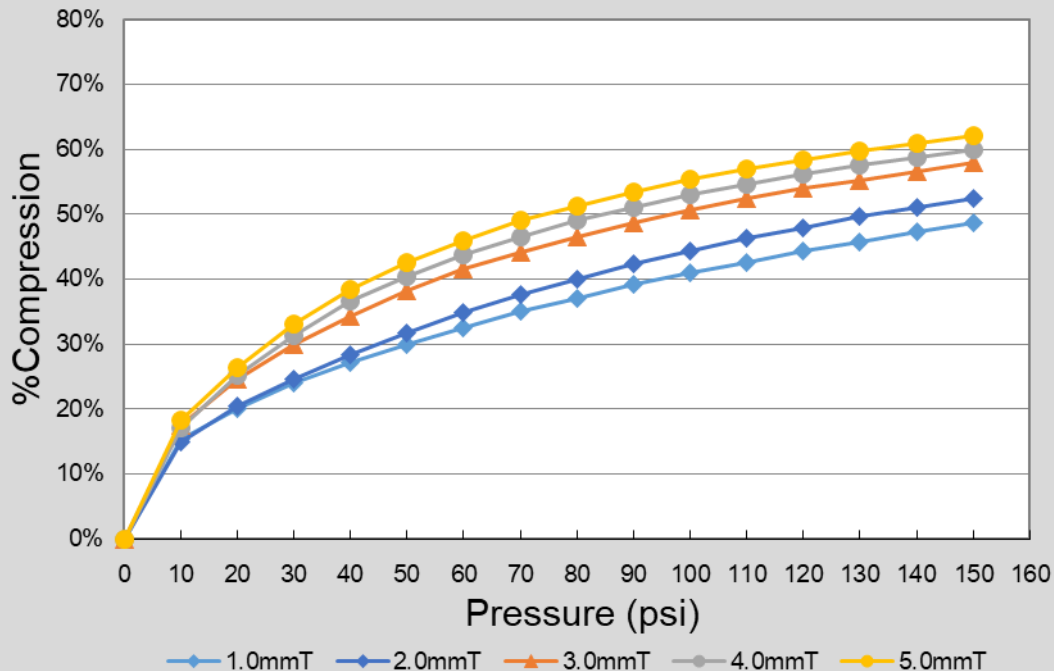
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**Thermal Impedance of OP-8500 Spec07****% Compression of OP-8500 Spec07****SEM (North America) Inc.**

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