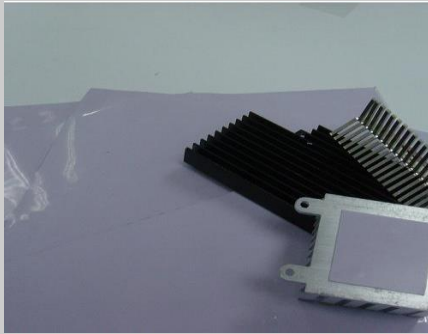


**Features and Benefits**

- 5.0W/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 05 offers good thermal performance and exceptional 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 05 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

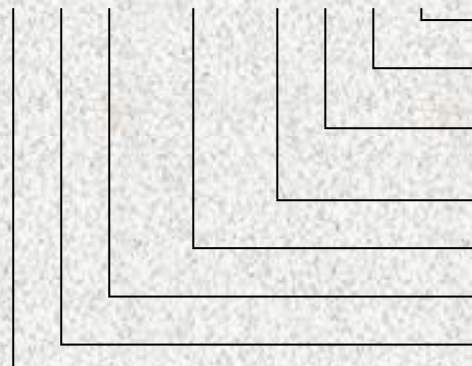
Properties	OP-8500 Spec 05	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Violet	Visual
Thickness Range /inch (mm)	0.02"~0.40" (0.508~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm <sup>-3</sup>	3.3	—
Hardness /Shore 00	45	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m <sup>-1</sup> .K <sup>-1</sup>	5.0	ASTM D5470 (modified)
Breakdown Voltage /V	>4000 (Thickness = 0.02~0.04") >6000 (Thickness ≥ 0.04")	ASTM D149
Volume Resistivity /ohm.cm	8.0 x 10 <sup>13</sup>	ASTM D257
Dielectric Constant @ 1MHz	12.8	ASTM D150
Shelf Life /Months	24	—

Please contact us for other requirements

Carrier Treatment	Criteria
Fiber Glass (FG)	Not Recommended
Rubberized Cloth (RC)	Not Recommended
Pressure Sensitive Adhesive (PSA)	Not Recommended
Detachable Adhesive (DA)	Optional to all thickness
Aluminum Foil (AL)	Not Recommended
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Optional to all thickness

**Product Code and Descriptions**

OP 85 XX Spec 05 -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  
CB = Combination  
OT = Other

**Spec 05 = Special Derivative #**

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

**85 = 8500 Series**

OP = OPTIM™ gap filler

**SEM (North America) Inc.**

Tel: +1 585-643-2000  
Fax: +1 585-427-7216  
Address: 1555 Jefferson Road,  
Rochester, NY 14623

**SEM Belgium bv**

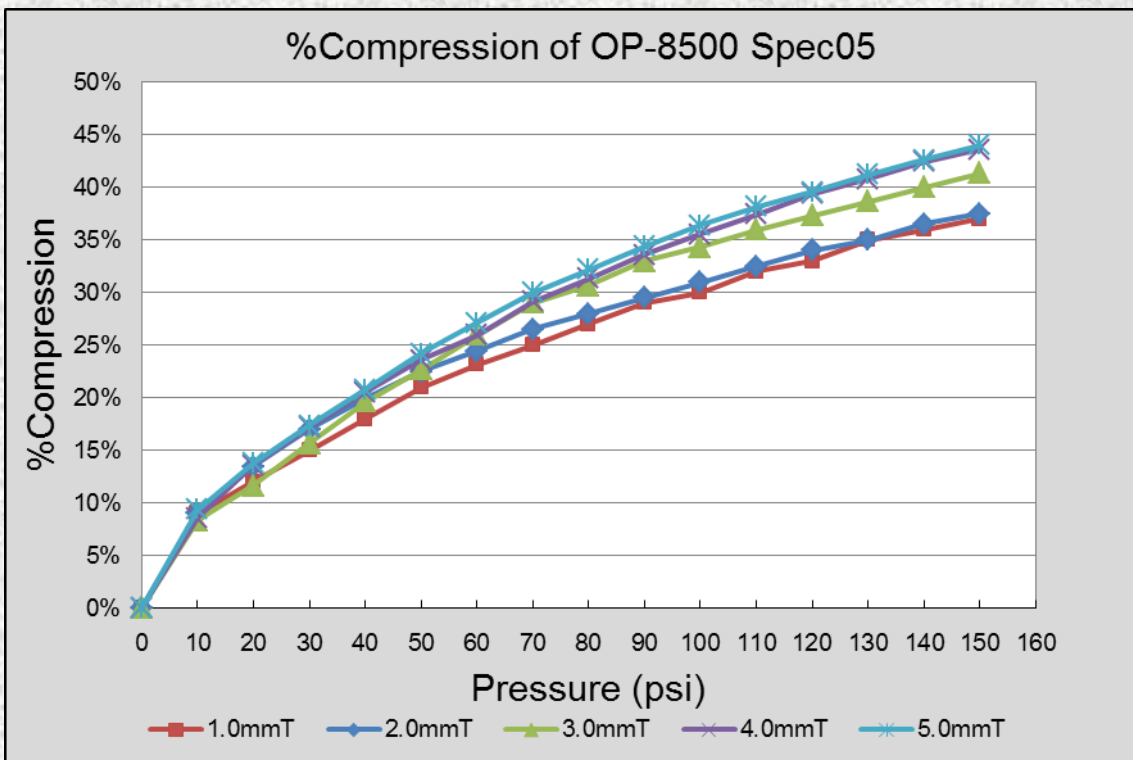
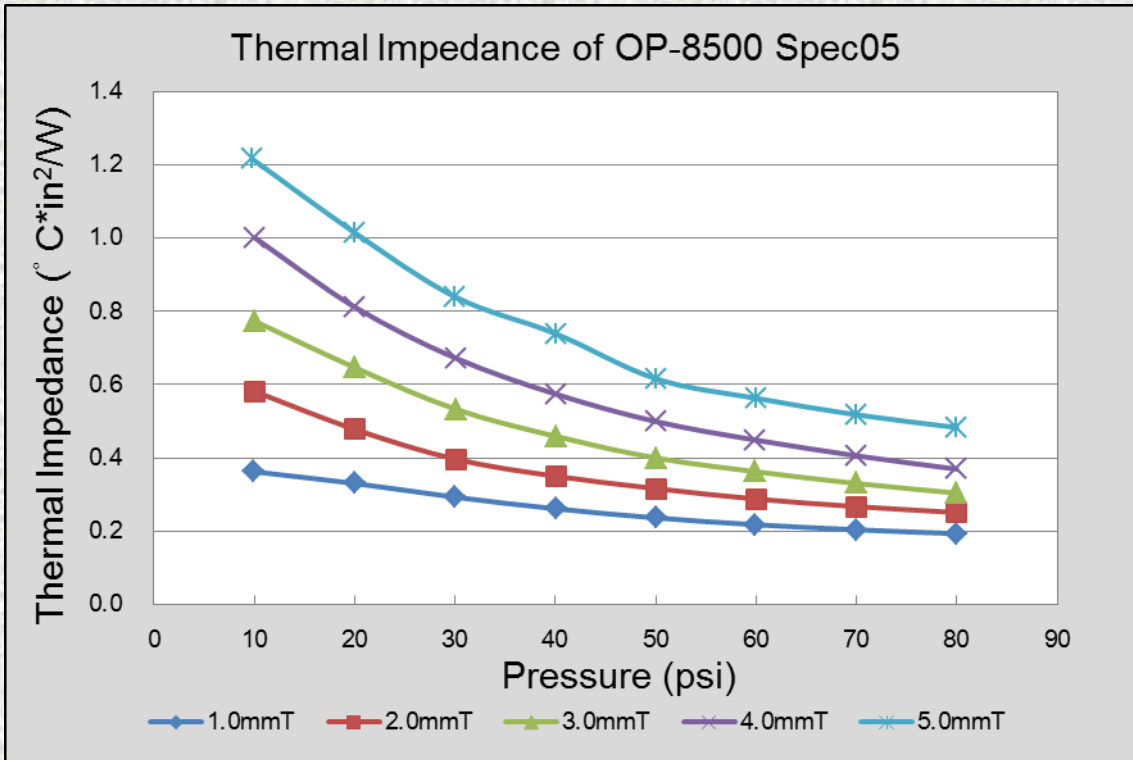
+32 59 560 270  
Schatting 73,  
8210 Zedelgem, Belgium

**SEM Asia Ltd.**

+852 2686 8168  
+852 2686 8268  
Unit 1, 3/F Block A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., Hong Kong

**SEM (Dongguan) Ltd.**

+86-769-8334 1628  
+86-769-8334 2028  
No. 8A Qiaoxin Road, Qiaotou,  
Dongguan, Guangdong, China  
Postal code 523525



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