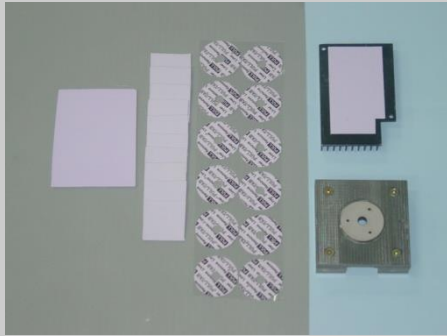


Features and Benefits

- 3.0W/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

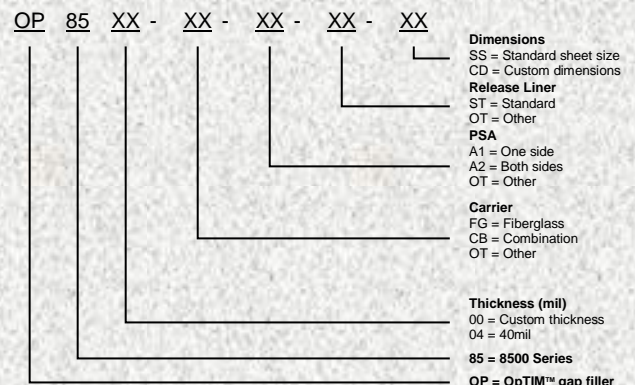
OP-8500 offers improved thermal performance and conformability. This material conforms to surface irregularities under low application pressures. It is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

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

| Properties | OP-8500 Series | Test Method |
|---|--|-----------------------|
| Construction & Composition | Soft silicone elastomer | — |
| Color | Violet | Visual |
| Thickness Range /inch (mm) | 0.01"~0.40" (0.254~10.16) in 0.01" (0.254) increments | — |
| Standard Sheet Size | 12" x 16" | — |
| Density /g.cm ⁻³ | 2.98 | — |
| Hardness /Shore 00 | 40 | 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 | 3.0 | 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 ≤ 0.03" (0.75mm) |
| 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) | Not Recommended |
| Kapton (PI) | Not Recommended |
| Talc treatment (DAT) | Optional to all thickness |

Product Code and Descriptions



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

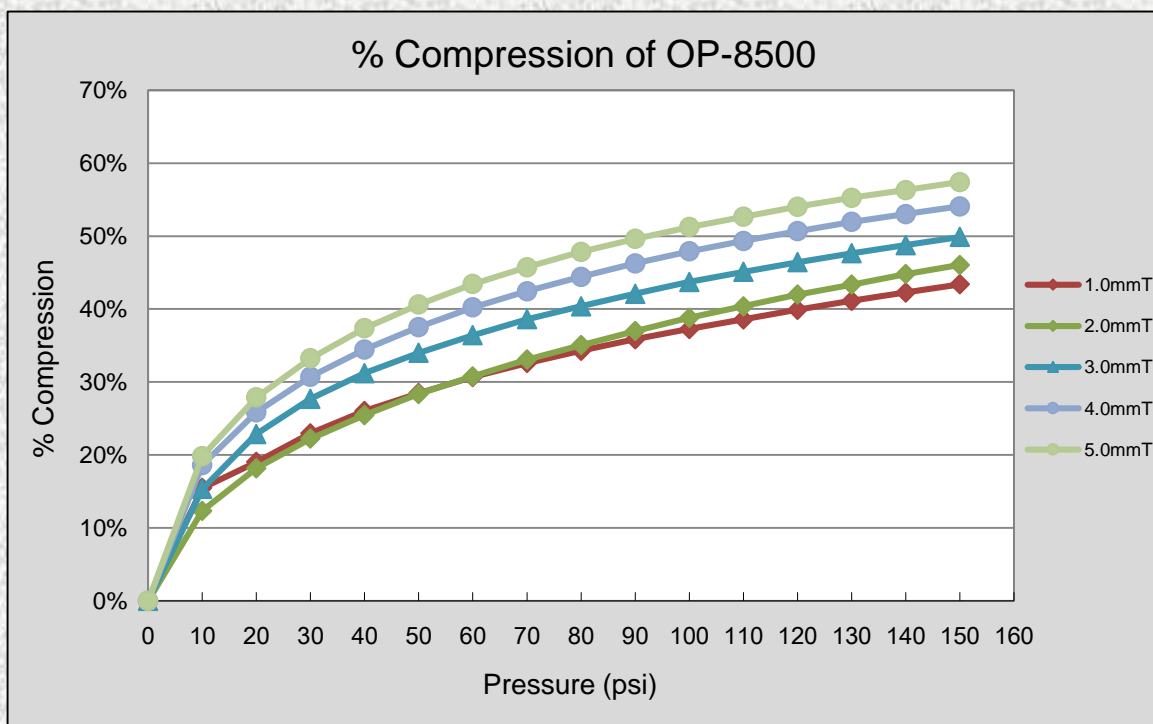
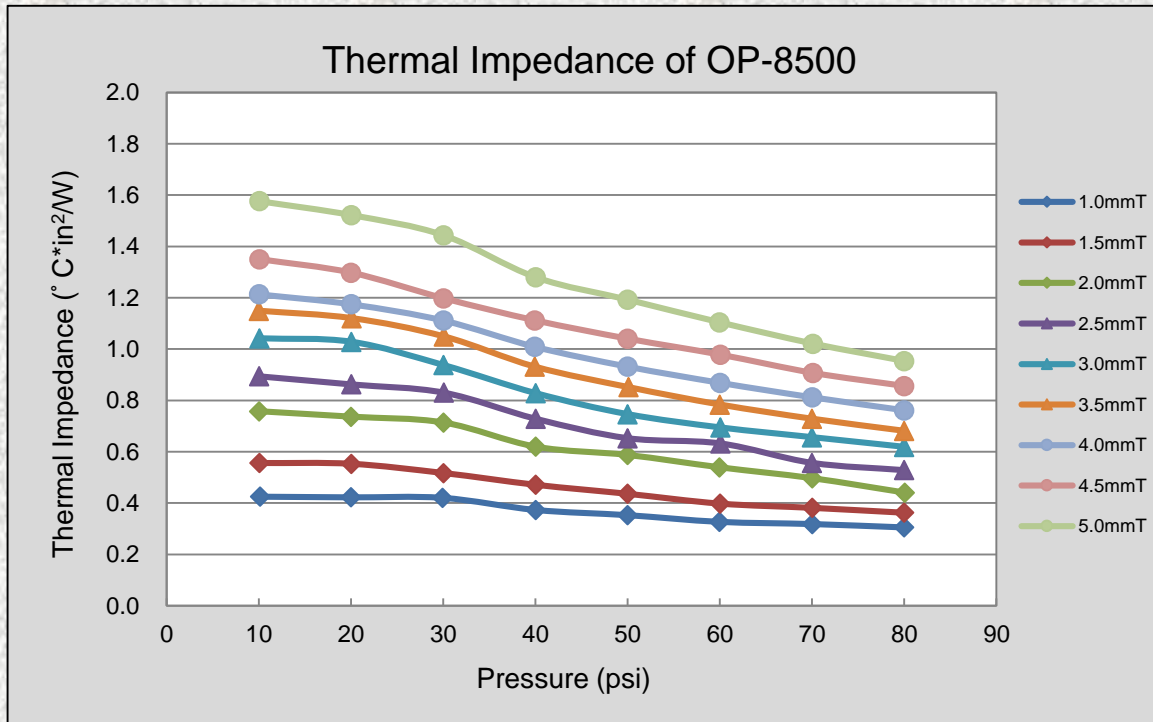
SEM (Far East) Ltd.

+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.

SEM (Dongguan) Ltd.

+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.



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.

SEM (Dongguan) Ltd.

+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.