

**Features and Benefits**

- 1.5W/m-K thermal conductivity
- Exceptional compressibility
- Cost effective
- RoHS compliant
- Halogen-free
- Electrically isolating



**Typical Applications**

- High speed mass storage devices
- RDRAM memory modules
- Heat pipe assemblies
- Cooling components to the chassis, frame or other types of heat spreader
- Motor controls
- Wireless communication hardware

**Optional Configurations**

- Can be die-cut into specific dimensions

OP-8200 is an economical freestanding gap filling material. It offers moderate thermal conductivity and compressibility. It is an ideal solution for cost-sensitive applications.

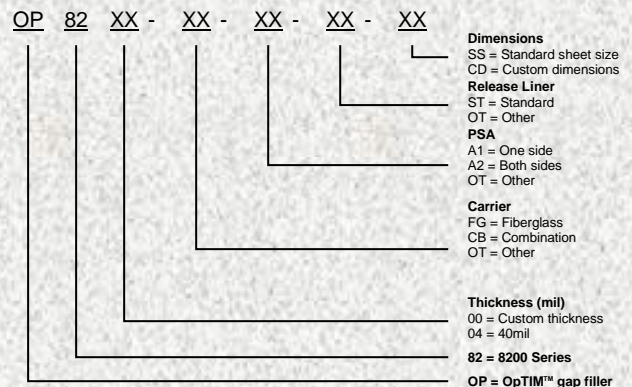
OP-8200 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

| Properties  | OP-8200 Series  | Test Method           |
|---|---|-----------------------|
| Construction & Composition                              | Soft silicone elastomer                                 | —                     |
| Color   | Light grey  | Visual                |
| Thickness Range /inch (mm)                              | 0.01~0.40" (0.254~10.16)<br>in 0.01" (0.254) increments | —                     |
| Standard Sheet Size                                     | 12" x 16"   | —                     |
| Density /g.cm <sup>-3</sup>                             | 1.76  | —                     |
| Hardness /Shore 00                                      | 60  | ASTM D2240            |
| Tensile Strength /psi                                   | 58  | ASTM D412             |
| UL Flammability Rating                                  | UL94 V0   | E109346               |
| Temperature Range /°C                                   | -40~200°C   | —                     |
| Thermal Conductivity W.m <sup>-1</sup> .K <sup>-1</sup> | 1.5   | ASTM D5470 (modified) |
| Breakdown Voltage /V                                    | >6000 (Thickness ≤ 0.03")<br>>10000 (Thickness ≥ 0.04") | ASTM D149             |
| Volume Resistivity /ohm.cm                              | 3.0 x 10 <sup>13</sup>                                  | ASTM D257             |
| Dielectric Constant @ 1MHz                              | 5.0   | 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) | Optional to all thickness      |
| Detachable Adhesive (DA)          | Optional to all thickness      |
| Aluminum Foil (AL)                | Not Recommended                |
| Kapton (PI)                       | Not Recommended                |
| Talc treatment (DAT)              | Not Recommended                |

**Product Code and Descriptions**



**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

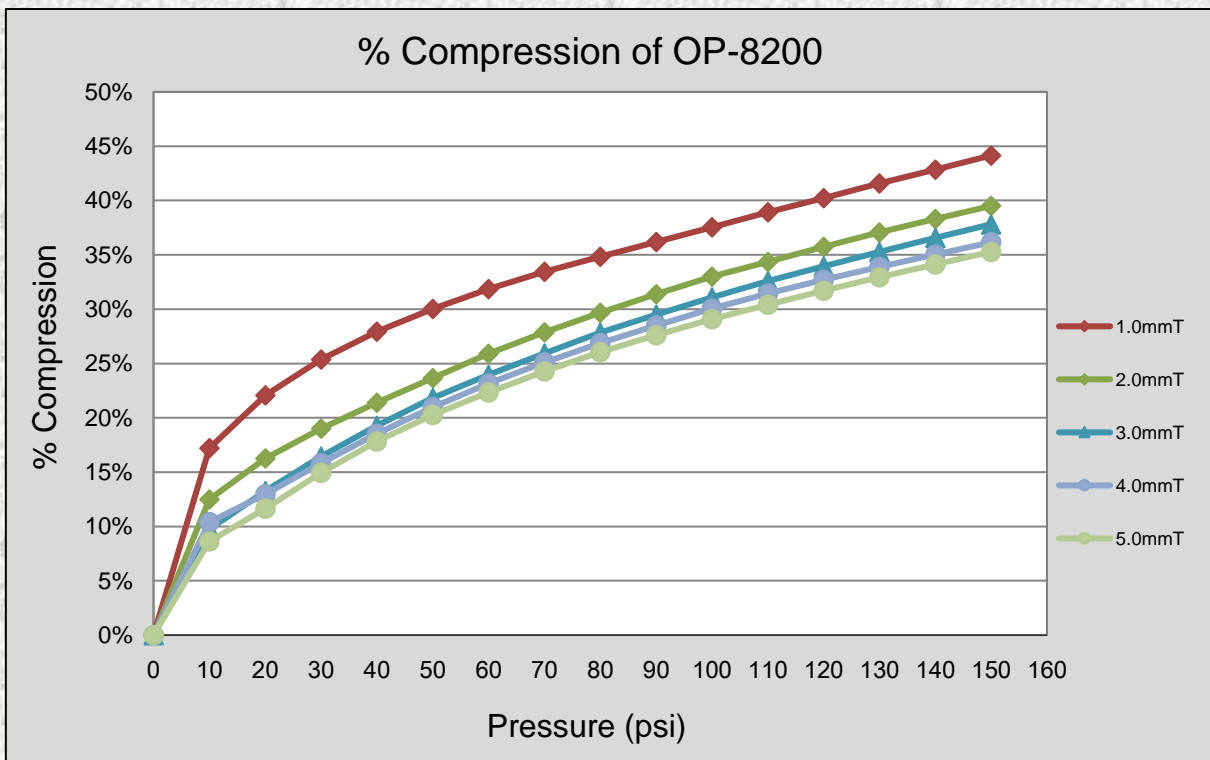
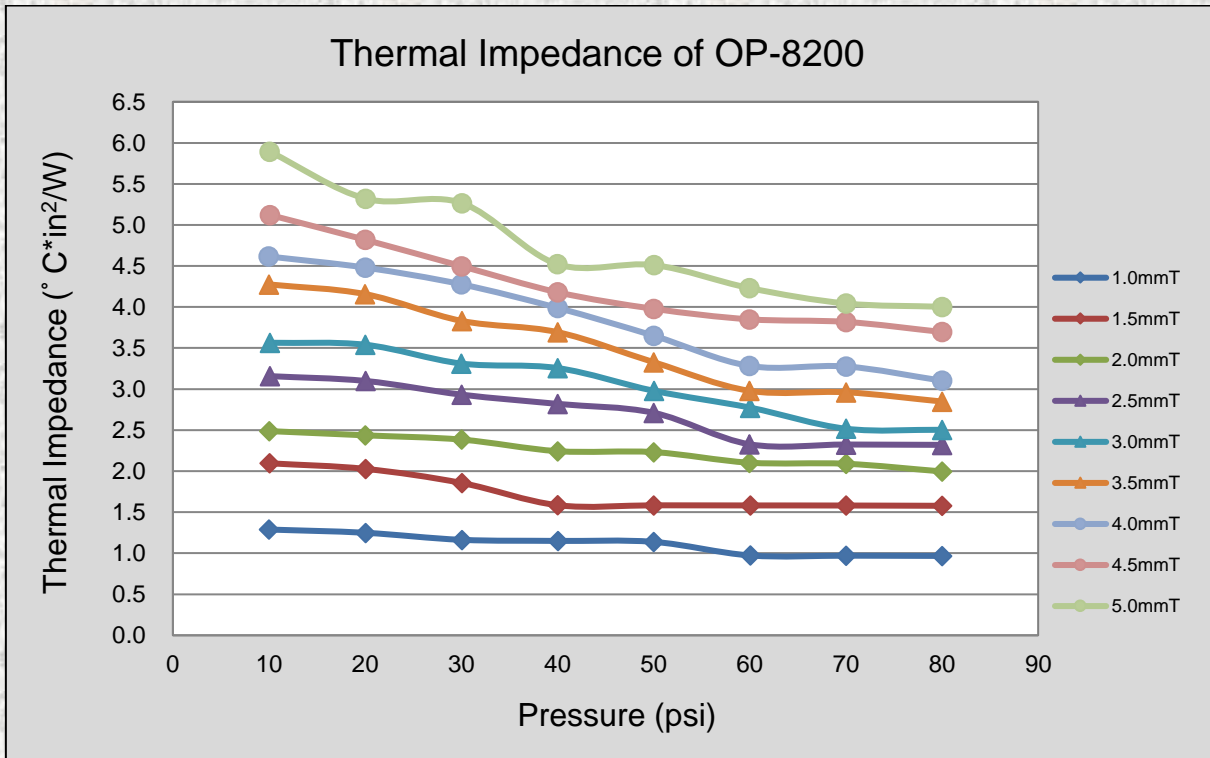
**SEM Asia Ltd.**

+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

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: 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

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.