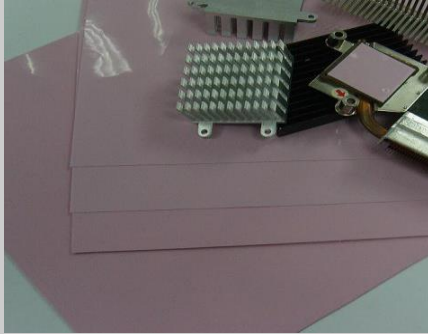


Features and Benefits

- 2.5W/m-K thermal conductivity
- Improved handling properties
- Naturally tacky



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

- Fibreglass reinforcements are recommended for $\leq 0.03"$
- Adhesive coating are optional
- Can be die-cut into specific dimensions

OP-8400 Spec 01 is a functional derivative of the original OP-8400 series. It exhibits good thermal performance but with much improved handling properties than the normal OP-8400.

It is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

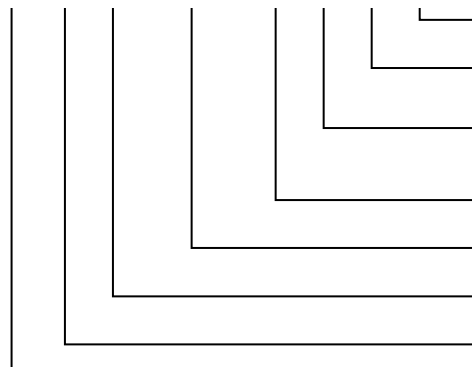
| Properties | OP-8400 Spec 01 | Test Method |
|---|---|-----------------------|
| Construction & Composition | Soft silicone elastomer | — |
| Color | Pink | Visual |
| Thickness Range /inch (mm) | 0.01"~0.40" (0.254~10.16) in 0.01" (0.254) increments | — |
| Standard Sheet Size | 12" x 16" | — |
| Density /g.cm ⁻³ | 2.56 | — |
| Hardness /Shore 00 | 60 | ASTM D2240 |
| UL Flammability Rating | Conforms to UL94 V0 | — |
| Temperature Range /°C | -40~200°C | — |
| Thermal Conductivity W.m ⁻¹ .K ⁻¹ | 2.5 | ASTM D5470 (modified) |
| Breakdown Voltage /V | >5000 (Thickness $\leq 0.03"$) >6000 (Thickness = 0.04~0.05") >10000 (Thickness $\geq 0.06"$) | ASTM D149 |
| Volume Resistivity /ohm.cm | 7.5×10^{13} | ASTM D257 |
| Dielectric Constant @ 1MHz | 6.2 | ASTM D150 |
| Shelf Life | 24 months | — |

Please contact us for other special requirements

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

Product Code and Descriptions

OP 84 XX Spec 01 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 01 = Special Derivative #
Thickness (mil)
00 = Custom thickness
04 = 40mil
84 = 8400 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

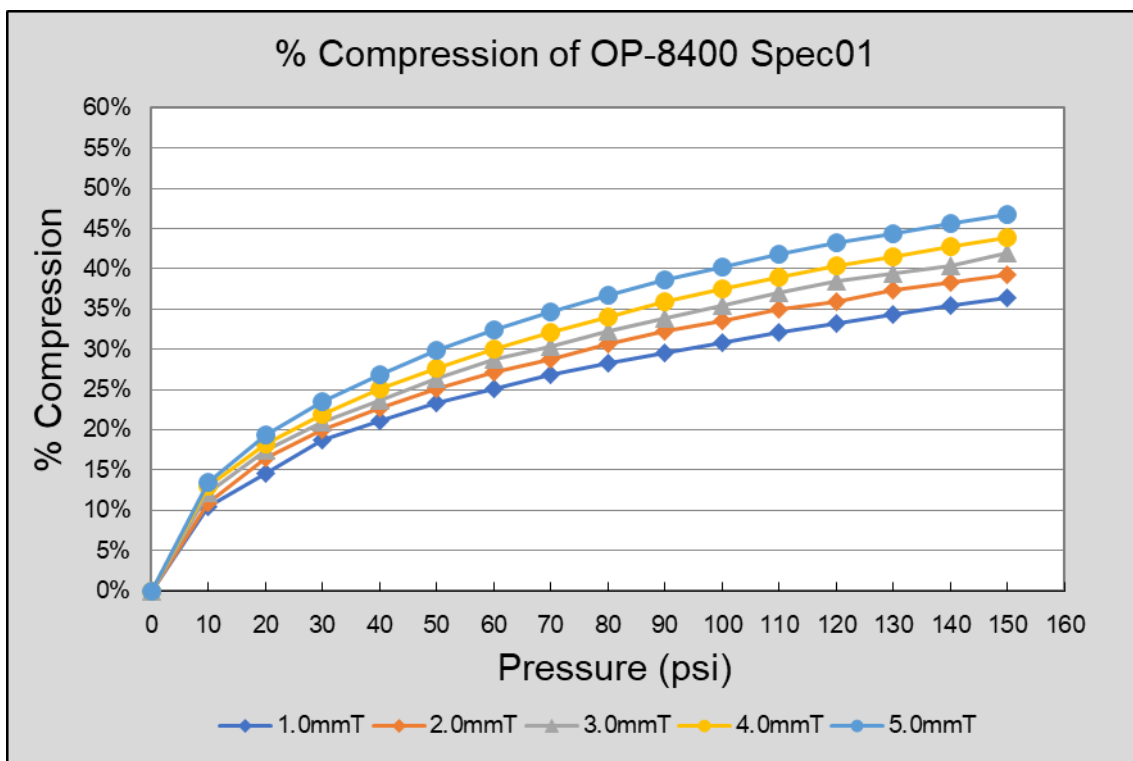
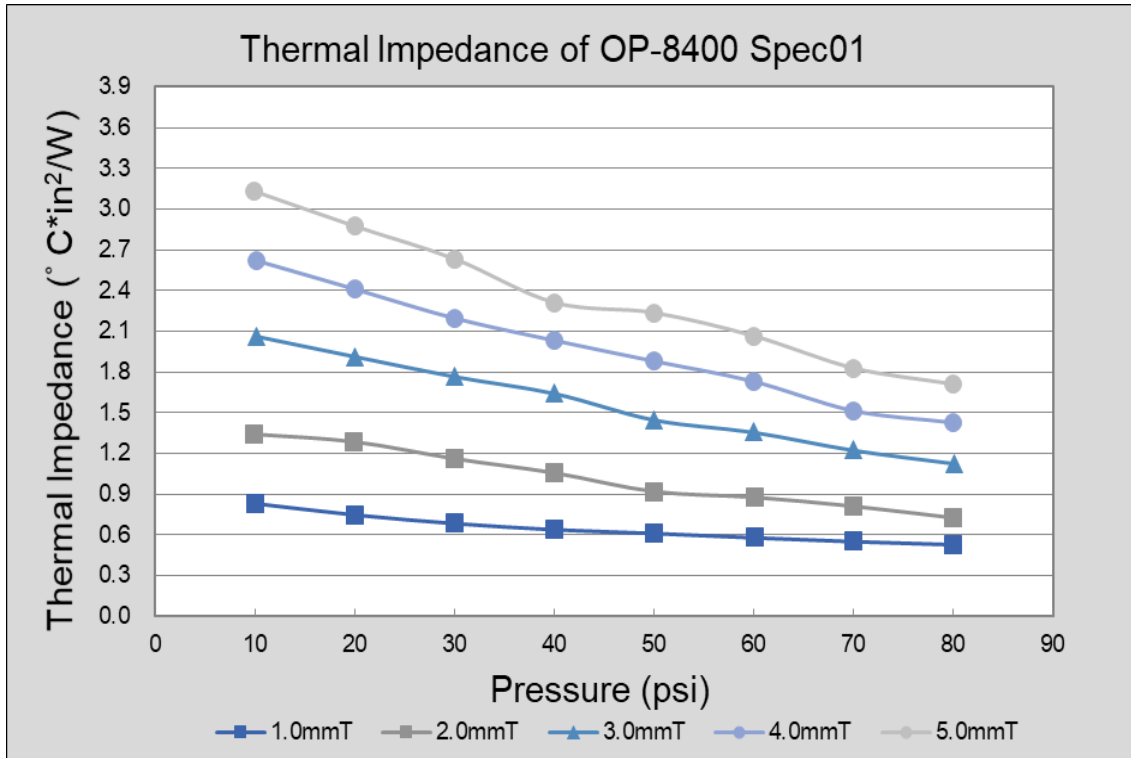
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