

**Features and Benefits**

- 2.5W/m-K thermal conductivity
- Good compressibility
- RoHS Compliant
- Halogen-free
- 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**

- Can be die-cut into specific dimensions

OP-8400 is exceptionally soft and exhibits good thermal performance. It is compliant to RoHS standard while maintaining its halogen-free status. These special features are benefited from the proprietary composition of metal oxide fillers in its binder matrix.

OP-8400 is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

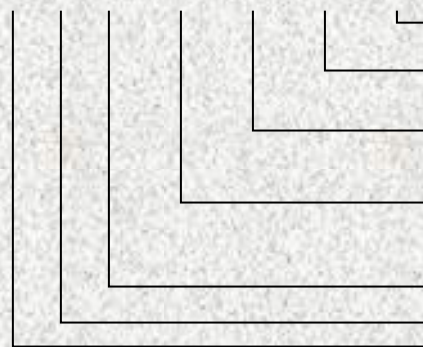
Properties	OP-8400 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Pink	Visual
Thickness Range /inch (mm)	0.01"~0.40" (0.254~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm <sup>-3</sup>	2.56	—
Hardness /Shore 00	40	ASTM D2240
Tensile Strength /psi	20	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m <sup>-1</sup> .K <sup>-1</sup>	2.5	ASTM D5470 (modified)
Breakdown Voltage /V	>5000 (Thickness ≤ 0.03") >6000 (Thickness = 0.04~0.05") >10000 (Thickness ≥ 0.06")	ASTM D149
Volume Resistivity /ohm.cm	7.5 x 10 <sup>13</sup>	ASTM D257
Dielectric Constant @ 1MHz	6.2	ASTM D150
Shelf Life /Months	24	—

Please contact us for other special 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)	Optional to ≥ 0.039" (1.0mm)
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Optional to all thickness

**Product Code and Descriptions**

OP 84 XX - XX - XX - XX - XX



- Dimensions**  
 SS = Standard sheet size  
 CD = Custom dimensions
- Release Liner**  
 ST = Standard  
 OT = Other
- PSA**  
 A1 = One side  
 A2 = Both sides  
 OT = Other
- Carrier**  
 FG = Fiberglass  
 RC = Rubberized Cloth  
 CB = Combination  
 OT = Other
- Thickness (mil)**  
 00 = Custom thickness  
 04 = 40mil
- 84 = 8400 Series**  
**OP = OpTIM™ gap filler**

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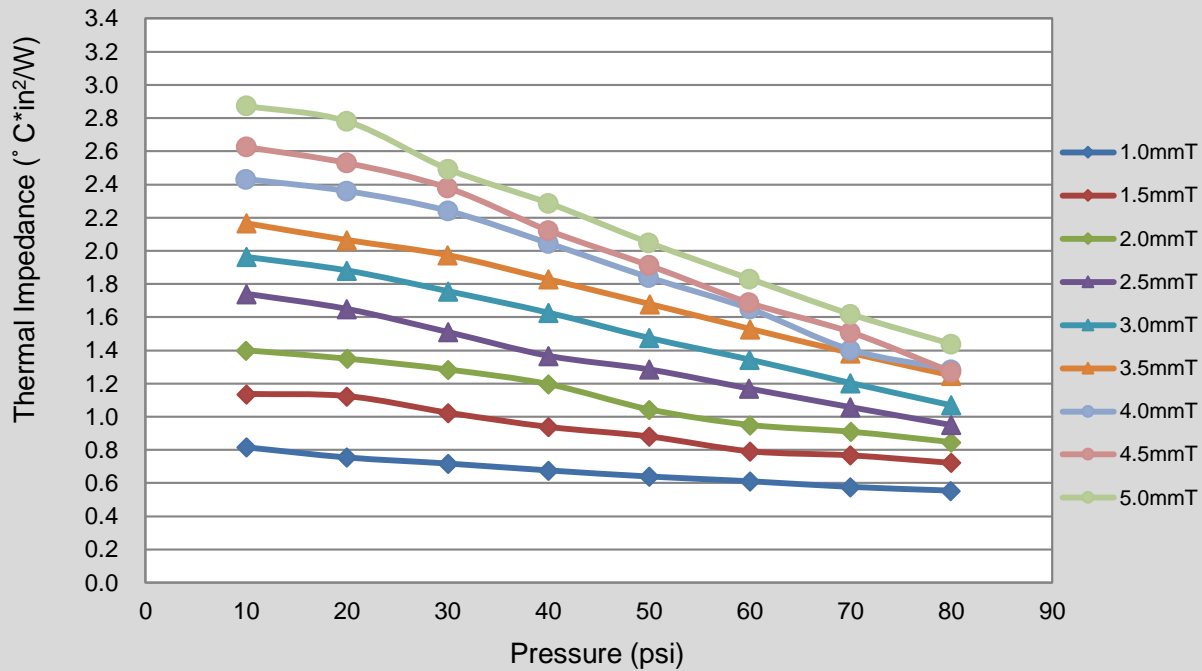
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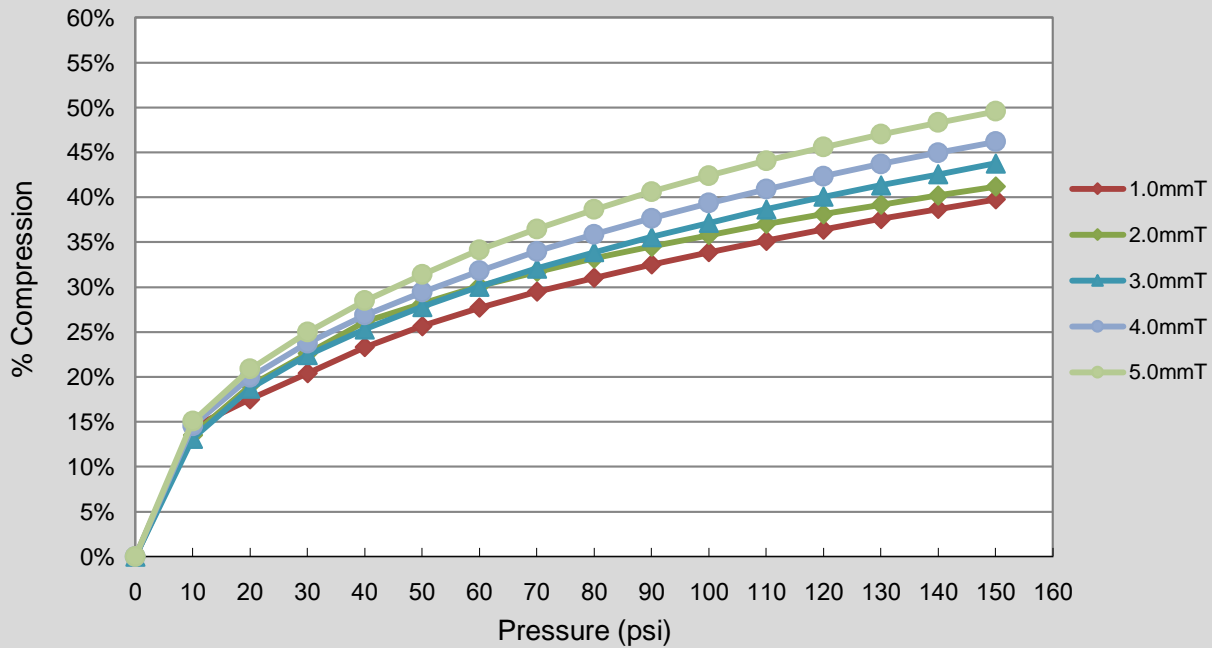
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Thermal Impedance of OP-8400



% Compression of OP-8400



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