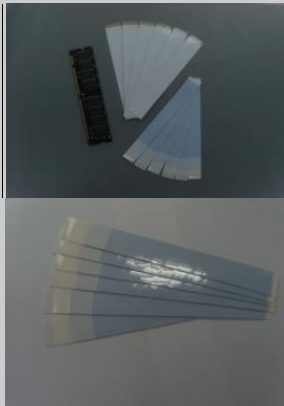


Features and Benefits

- 1.2W/m-K thermal conductivity
- Moderate compressibility
- Cost effective
- Electrically isolating
- RoHS compliant
- Halogen-free



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-8100 is a gap filling material suitable for cost sensitive applications.

It is electrically non-conductive and offers moderate thermal conductivity and compressibility.

The proprietary formulation of OP-8100 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

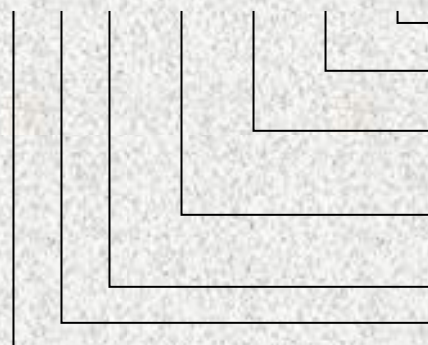
Properties	OP-8100 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Blue	Visual
Thickness Range /inch (mm)	0.01~0.40" (0.254~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm ⁻³	1.76	—
Hardness /Shore 00	60	ASTM D2240
Tensile Strength /psi	52	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	1.2	ASTM D5470 (modified)
Breakdown Voltage /V	>6000 (Thickness ≤ 0.05") >10000 (Thickness ≥ 0.06")	ASTM D149
Volume Resistivity /ohm.cm	3.0 x 10 ¹³	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)	Not Recommended
Aluminum Foil (AL)	Not Recommended
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Not Recommended

Product Code and Descriptions

OP 81 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 = Rubber
 AL = Aluminum
 CB = Combination
 OT = Other
- Thickness (mil)**
 00 = Custom thickness
 04 = 40mil
- 81 = 8100 Series**
OP = OpTIM™ gap filler

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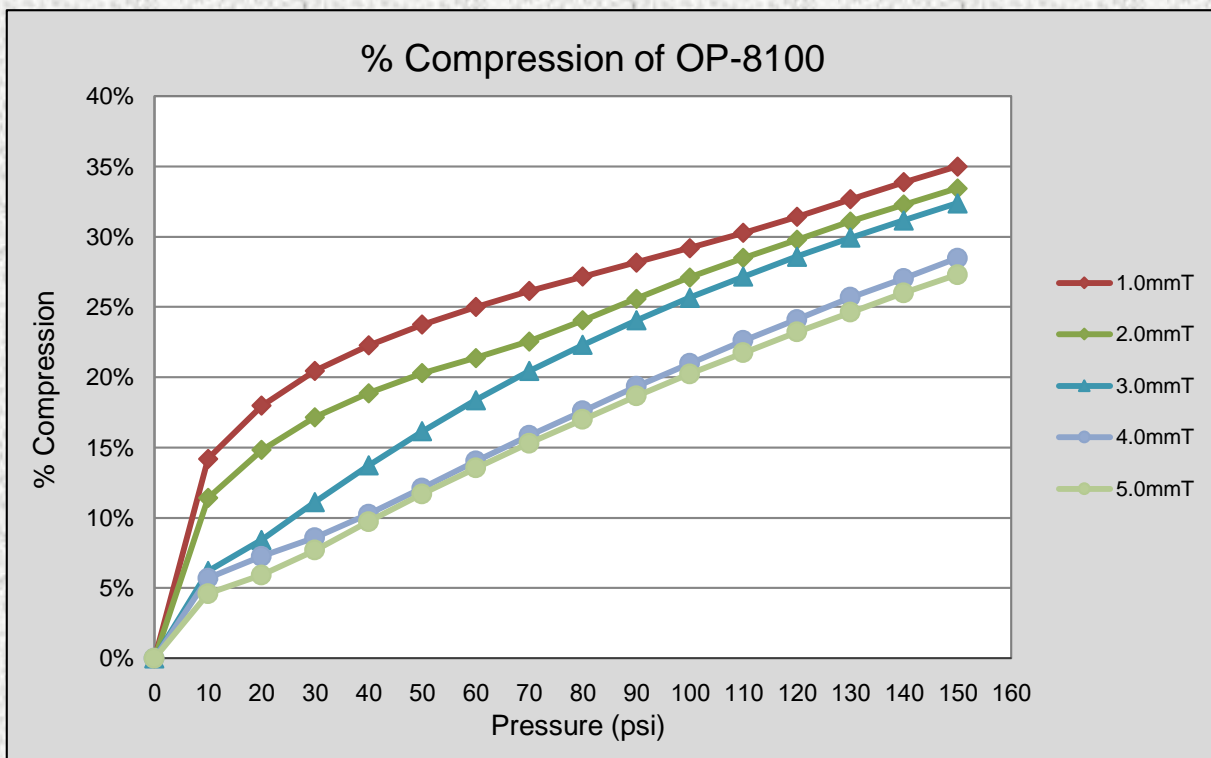
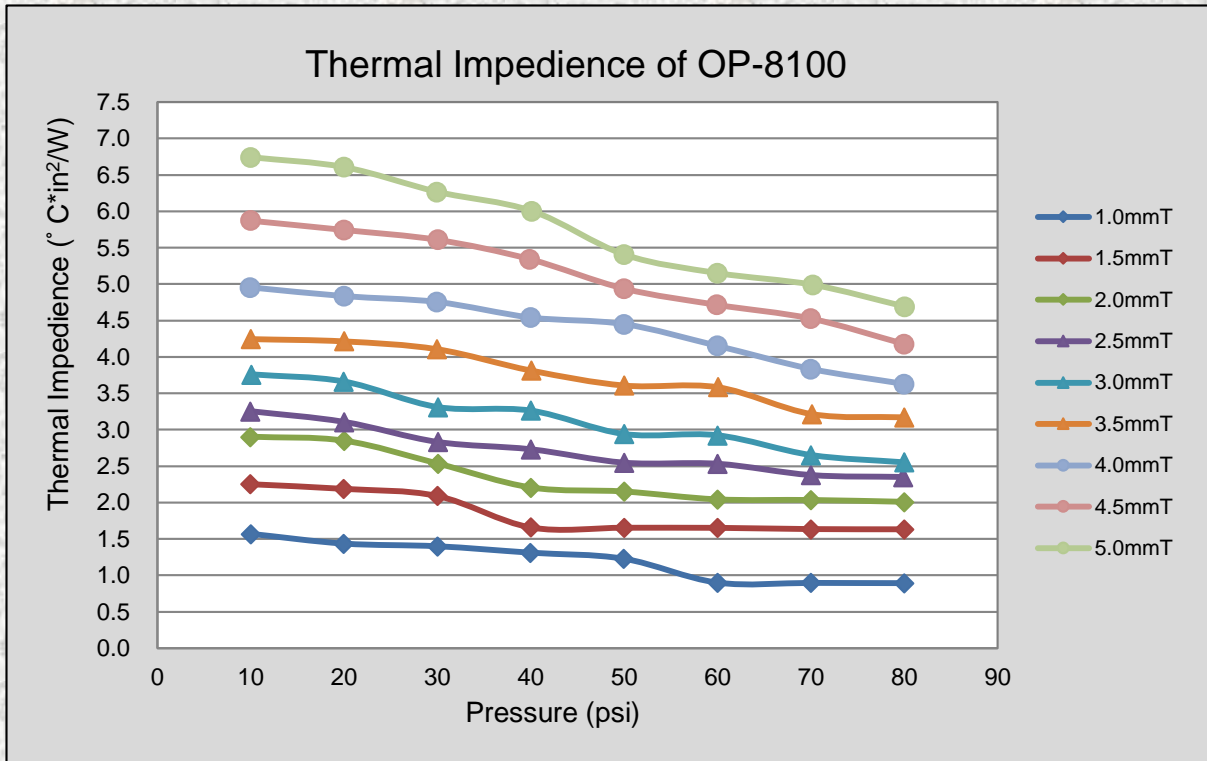
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