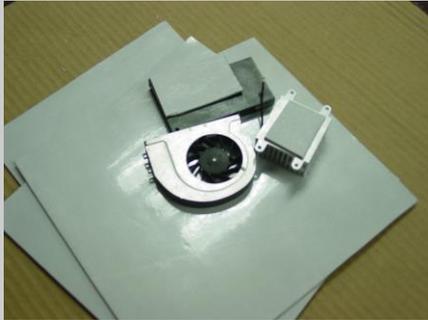


Features and Benefits

- 2.5W/m-K thermal conductivity
- Moderate compressibility
- Cost effective
- Electrically isolating



Typical Applications

- Cooling component to the chassis, frame, or other type of heat spreader
- Mass storage devise
- Heat pipe assemblies
- RDRAM memory modules
- Motor control
- Telecommunication hardware

Optional Configurations

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

OP-8100 Spec 01 is a performance-improved derivative of the original OP-8100 gap pad. This special feature is benefited from a revised metal oxide filler matrix. It is electrically non-conductive and conforms to UL94 V0 standard.

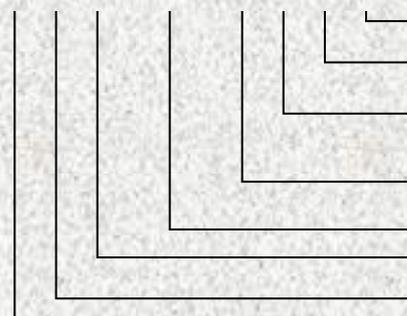
Properties	OP-8100 Spec 01 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Grey	Visual
Thickness Range /inch (mm)	0.01"~0.30" (0.254~7.62) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm ⁻³	2.43	—
Hardness /Shore 00	60	ASTM D2240
UL Flammability Rating	Conforms to UL94 V0 Standard	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	2.5	ASTM D5470 (modified)
Breakdown Voltage /V	>6000 (Thickness $\leq 0.05"$) >10000 (Thickness $\geq 0.06"$)	ASTM D149
Volume Resistivity /ohm.cm	3.0×10^{13}	ASTM D257
Shelf Life	24 months	—

Please contact us for other special requirements

Carrier Treatment	Criteria
Fiber Glass (FG)	Compulsory for $\leq 0.012"$ (0.3mm)
Rubberized Cloth (RC)	Not Recommended
Pressure Sensitive Adhesive (PSA)	Not Recommended
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 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

81 = 8100 Series
OP = OPTIM™ gap filler

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