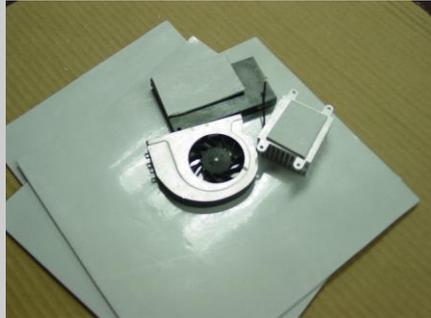


Features and Benefits

- 3.0W/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 device
- Heat pipe assemblies
- RDRAM memory modules
- Motor control
- Telecommunication hardware

Optional Configurations

- Fibreglass reinforcements are recommended for ≤ 0.03"
- Adhesive coatings are optional
- Aluminium lamination is optional
- Can be die-cut into specific dimensions

OP- 8100 Spec 02 is a performance-improved derivative of the original OP- 8100 gap filler. This special feature is benefited from a revised metal oxide filler matrix. It is electrically non-conductive and conforms to UL94 V0 standard.

The proprietary formulation of OP-8100 Spec02 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

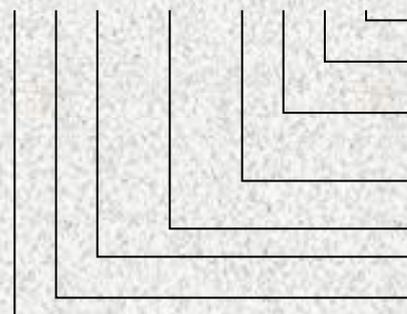
Properties	OP-8100 Spec 02 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Grey	Visual
Thickness Range /inch (mm)	0.01"~0.20" (0.254~5.08) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm ⁻³	2.98	—
Hardness /Shore 00	60	ASTM D2240
UL Flammability Rating	UL94 V0	E310786
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	3.0	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

Please contact us for other special requirements

Carrier Treatment	Criteria
Fiber Glass (FG)	Compulsory for ≤ 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 02 -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 02 = Special Derivative #
Thickness (mil)
 00 = Custom thickness
 04 = 40mil
81 = 8100 Series
 OP = OPTIM™ gap filler

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