

Features and Benefits

- 1.5W/m-K thermal conductivity
- Exceptional compressibility
- Cost effective
- Naturally tacky
- Electrically isolating
- RoHS compliant
- Halogen-free



Typical Applications

- Notebook and desktop computers
- Memory modules
- Heat pipe assemblies
- HDDs and DVDs
- Flat-panel displays
- Telecommunication hardware

Optional Configurations

- Can be die-cut into specific dimensions

OP-8300 Spec 06 is a ceramic filled silicone elastomer. It is exceptionally soft and is suitable for applications that require moderate thermal performance. The formulation of OP-8300 Spec 06 is designed to be RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

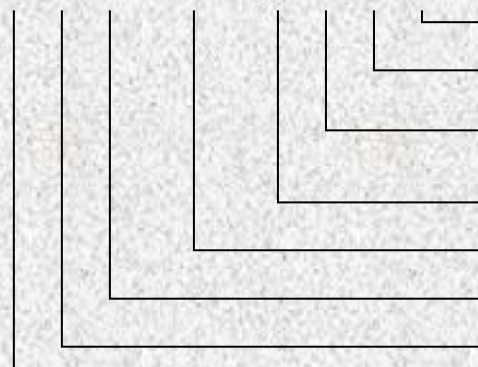
OP-8300 Spec 06 is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

Properties	OP-8300 Spec 06	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Blue	Visual
Thickness Range /inch (mm)	0.02"~0.40" (0.508~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	9" x 9"	—
Density /g.cm ⁻³	2.08	—
Hardness /Shore 00	10	ASTM D2240
Tensile Strength /psi	18	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	1.5	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	3.2 x 10 ¹³	ASTM D257
Dielectric Constant @ 1000Hz	5.1	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)	Optional to all thickness
Pressure Sensitive Adhesive (PSA)	Not Recommended
Detachable Adhesive (DA)	Optional to ≥ 0.039" (1.0mm)
Aluminum Foil (AL)	Not Recommended
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Optional to all thickness
OI-2000(OI)	Optional to all thickness

Product Code and Descriptions

OP 83 XX Spec 06 -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
RC = Rubberized Cloth
CB = Combination
OT = Other
Spec 06 = Special Derivative #

Thickness (mil)
00 = Custom thickness
04 = 40mil

83 = 8300 Series
OP = OPTIM™ gap filler

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