

**Features and Benefits**

- Superior thermal performance
- 12.0 W/m-K thermal conductivity
- Electrically isolating
- RoHS compliant
- Halogen-free



**Typical Applications**

- Notebook Computers
- Handheld Portable Electronics
- Micro Heat Pipe assemblies
- Micro Processors, Memory Chips and Graphic Processors
- Motor Control
- Wireless Communication Hardware

**Optional Configurations**

- Can be die-cut into specific dimensions

OP-8200 Spec 05 offers good thermal performance and exceptional conformability. This material conforms to surface irregularities under low application pressures. It is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

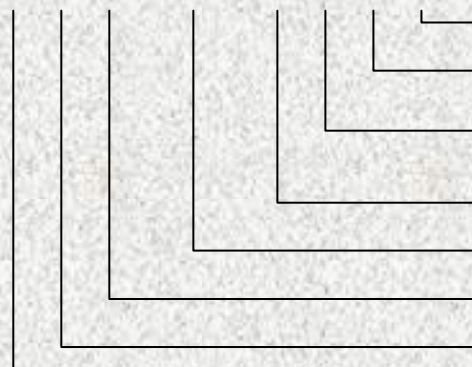
The proprietary formulation of OP-8200 Spec 05 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

Properties	OP-8200 Spec 05	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Grey	Visual
Thickness Range /inch (mm)	0.02"~0.20" (0.508~5.08) in 0.01" (0.254) increments	—
Standard Sheet Size	9" x 9"	—
Density /g.cm <sup>-3</sup>	3.0	—
Hardness /Shore 00	60	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40°C ~200°C	—
Thermal Conductivity W.m <sup>-1</sup> .K <sup>-1</sup>	12.0	ASTM D5470 (modified)
Breakdown Voltage /(KV/mm)	>10	ASTM D149
Volume Resistivity /ohm.cm	2.62 x 10 <sup>12</sup>	ASTM D257
Shelf Life /Months	12	—
Please contact us for other requirements		

Carrier Treatment	Criteria
Fiber Glass (FG)	Not Recommended
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 82 XX Spec 05 -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 05 = Special Derivative #**  
**Thickness (mil)**  
00 = Custom thickness  
04 = 40mil  
**82 = 8200 Series**  
**OP = OPTIM™ gap filler**

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