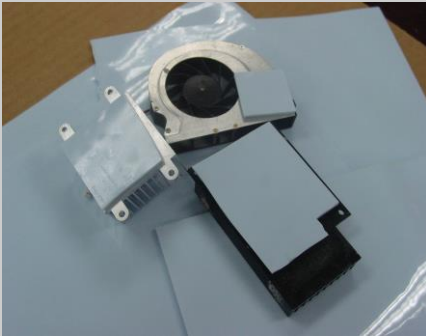


**Features and Benefits**

- 1.0W/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 05 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 05 is designed to be RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

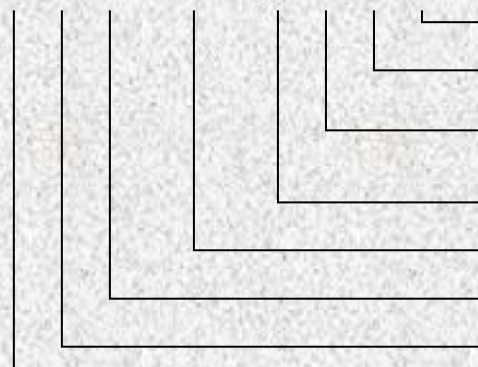
OP-8300 Spec 05 is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

Properties	OP-8300 Spec 05	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 <sup>-3</sup>	1.8	—
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 <sup>-1</sup> .K <sup>-1</sup>	1.0	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 <sup>13</sup>	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

**Product Code and Descriptions**

OP 83 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  
RC = Rubberized Cloth  
CB = Combination  
OT = Other

**Spec 05 = Special Derivative #**

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

**83 = 8300 Series**  
**OP = OPTIM™ gap filler**

**SEM (North America) Inc.**

Tel: +1 585-643-2000  
Fax: +1 585-427-7216  
Address: 1555 Jefferson Road,  
Rochester, NY 14623

**SEM Belgium bv**

+32 59 560 270  
Schatting 73,  
8210 Zedelgem, Belgium

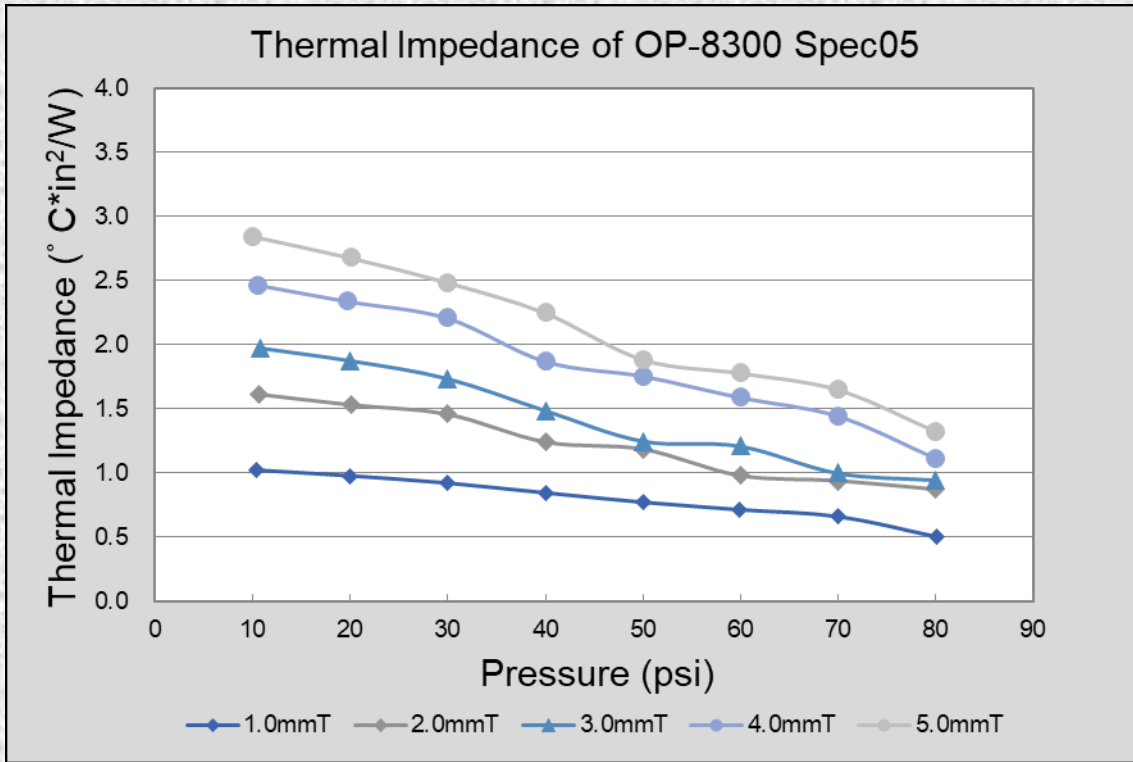
**SEM Asia Ltd.**

+852 2686 8168  
+852 2686 8268  
Unit 1, 3/F Block A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., Hong Kong

**SEM (Dongguan) Ltd.**

+86-769-8334 1628  
+86-769-8334 2028  
No. 8A Qiaoxin Road, Qiaotou,  
Dongguan, Guangdong, China  
Postal code 523525

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