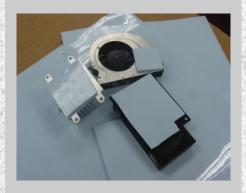


OP-8300 Spec 07

THERMALLY CONDUCTIVE GAP FILLER

Features and Benefits

- 1.2W/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 07 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 07 is designed to be RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

OP-8300 Spec 07 is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

Properties	OP-8300 Spec 07	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	12" x 16"	
Density /g.cm ⁻³	2.0	Contraction of the contraction o
Hardness /Shore 00	15	ASTM D2240
Tensile Strength /psi	28	ASTM D412
UL Flammability Rating	UL94 V0	
Temperature Range /℃	-40~200°C	
Thermal Conductivity W.m ⁻¹ .K ⁻¹	1.2	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
Oil-bleeding/%	2.9%	
Shelf Life /Months	24	155 min = 1710s

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)	Optio <mark>na</mark> l 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

SEM (North America) Inc.

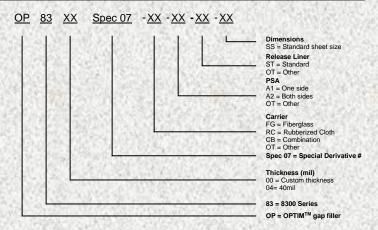
Tel: +1 585-643-2000 Fax: +1 585-427-7216 Address: 1555 Jefferson Road, Rochester, NY 14623

SEM Belgium by

+32 59 560 270

Schatting 73, 8210 Zedelgem, Belgium

Product Code and Descriptions



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

Specifications and appearances may change without notice. All statements, technical information and recommendations herein are based on tests that we believed to be reliable, but the accuracy and completeness are not guaranteed. Before using, user should determine the suitability of the product for its intended use, and the user assumes all risks and liabilities whatsoever in connection therewith. Neither the seller nor the manufacturer shall be liable for any loss or damage, direct, incidental or consequential, including loss of profits or revenues arising from the use or inability to use the product. Any statements or recommendations shall have no effect unless contained in an agreement signed by authorized personnel of the seller and manufacturer.