OpTIM™ by SCHLEGEL electronic materials a member of eMEI Group

OP-7400 Spec 02

Thermal/EMI Absorber

Features and Benefits

- Superior thermal performance
- 3.5 W/m-K thermal conductivity
- Good EMI suppression
- RoHS compliant
- Halogen-free

OP-7400 Spec02 offers hybrid absorber/thermal management material that is used for EMI mitigation. Designed using silicone gel binder that imparts inherent tack typical of standard thermal gap fillers. Filler particle composition imparts both excellent thermal conductivity and good EMI suppression in the microwave frequency.

The proprietary formulation of OP-7400 Spec02 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

Properties	OP-7400 Spec02	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Dark grey	Visual
Thickness Range /inch (mm)	0.02"~0.12" (0.508~3.048) in 0.01" (0.254) increments	—
Standard Sheet Size	9" x 9"	—
Density /g.cm^{-3}	4.0	ASTM D792
Hardness /Shore 00	60	ASTM D2240
Tensile Strength /psi	30	ASTM D638
UL Flammability Rating	UL94 V0	UL
Temperature Range /℃	-40℃~175℃	—
Thermal Conductivity W.m^{-1}.K^{-1}	3.5	ASTM D5470 (modified)
Volume Resistivity /ohm.cm	2.3 x 10^{11}	ASTM D257
EMI Attenuation @ 10 GHz	82 dB/cm	—
Shelf Life /Months	12	—
Please contact us for other requirements		

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

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 75 XX - XX - XX - XX - XX

Dimensions
SS = Standard sheet size
CD = Custom dimensions

Release Liner
ST = Standard
OT = Other

PSA
A1 = One side
A2 = Both sides
OT = Other

Carrier
CB = Combination
OT = Other

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

75 = 7500 Series

OP = OpTIM™ gap filler

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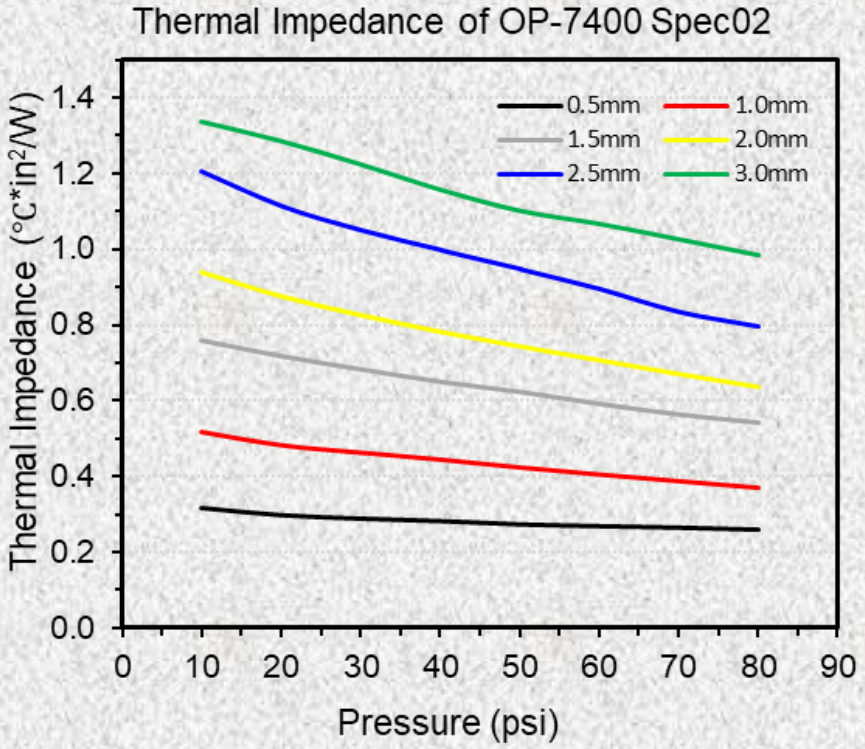

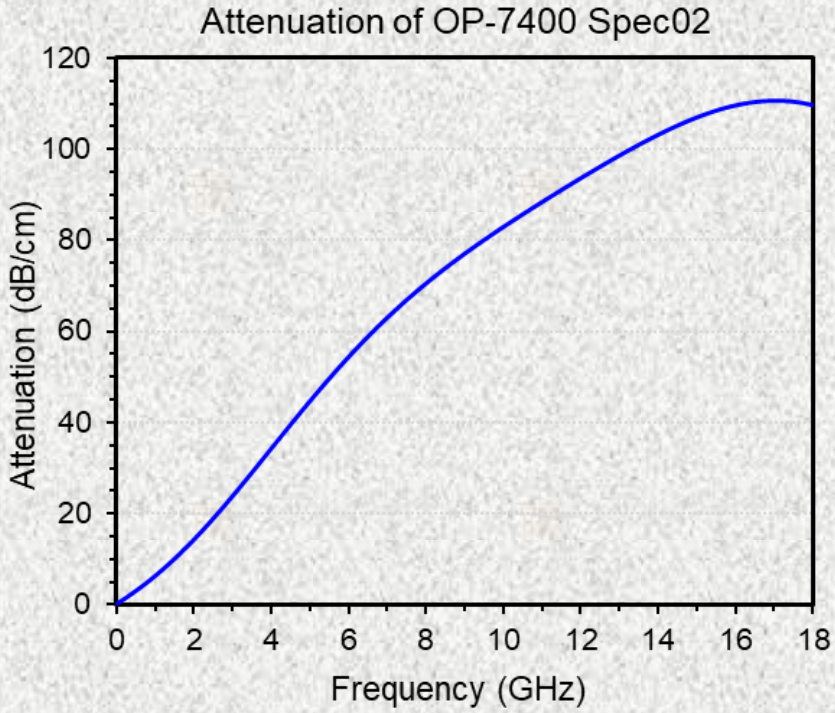

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