

PERFORMANCE BALANCED THERMAL GAP FILLER 2.8W/m-K

Features and Benefits

- 2.8W/m-K thermal conductivity
- Good compressibility
- Naturally tacky
- Electrically isolating
- RoHS compliant
- Halogen-free



Typical Applications

- Cooling component to the chassis, frame, or other type of heat spreader
- Mass storage device
- Heat pipe assemblies
- RDRAM memory modules
- Motor control
- Telecommunication hardware

Optional Configurations

- Can be die-cut into specific dimensions

E-Fill 8500 Spec 03 is a low hardness and fiberglass reinforced thermal gap filler which 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.

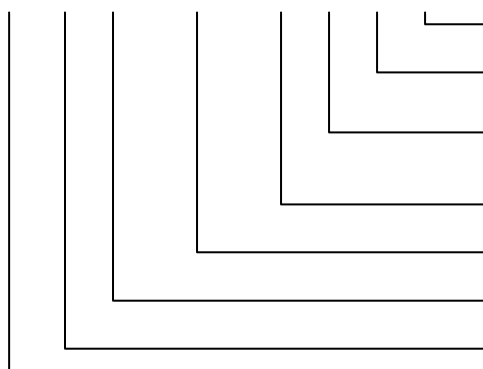
The proprietary formulation of E-Fill 8500 Spec 03 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

Properties	E-Fill 8500 Spec 03	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Violet	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 ⁻³	2.98	—
Hardness /Shore 00	15	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	—
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	2.8	ASTM D5470 (modified)
Breakdown Voltage /V	>5000	ASTM D149
Volume Resistivity /ohm.cm	8.0 x 10 ¹³	ASTM D257
Dielectric Constant @ 1MHz	12.4	ASTM D150
Dielectric Strength /kV/mm	13.11	ASTM D149
Shelf Life	24 months	—
Please contact us for other requirements		

Carrier Treatment	Criteria
Fiber Glass (FG)	Compulsory for ≤ 0.03" (0.75mm)
Rubberized Cloth (RC)	Not Recommended
Pressure Sensitive Adhesive (PSA)	Not Recommended
Detachable Adhesive (DA)	Optional to ≥ 0.039" (1.0mm)
Aluminum Foil (AL)	Optional to ≥ 0.039" (1.0mm)
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Optional to all thickness

Product Code and Descriptions

E-Fill 85 XX Spec 03 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
AL = Aluminum foil
CB = Combination
OT = Other

Spec 03= Special Derivative #

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

85 = 8500 Series
E-Fill = E-Fill gap filling Material

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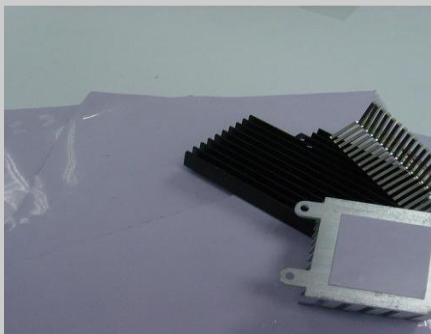
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产品特点

- 导热率 2.8W/m-K
- 高压缩比
- 具有天然粘性
- 电绝缘
- 符合 RoHS 规格
- 无卤素



一般应用

- 底盘，框架或其他散热组件
- 大容量存储设备
- 热管组件
- RDRAM 记忆模组
- 电机控制器
- 通信用硬件

其他配置

- 可模切成特定尺寸

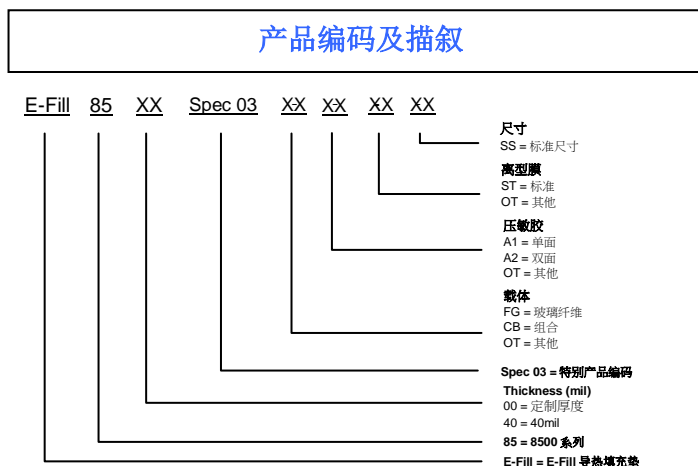
E-Fill 8500 Spec 03 是一款低硬度，使用玻璃纤维增强的高导热效能的导热填充垫，这款导热填充垫能够在低应用压力的情况下保持不规则表面间的良好接触。Fill 8500 Spec 03 具有电绝缘及天然粘性等特点，在正常情况下不需要增加额外的胶粘剂

独有的产品配方不单指符合 RoHS 规格更达到无卤素要求，令客户在使用时对于有害物质的控制更有信心。

一般特性	E-Fill 8500 系列	测试方法
结构及主要成分	硅树脂弹性体	—
颜色	紫色	目测
厚度 /inch (mm)	0.01"~0.40" (0.254~10.16) 以 0.01" (0.254)为基本增量单位	—
标准片材尺寸	12" x 16"	—
密度 /g.cm ⁻³	2.98	—
硬度 /Shore 00	15	ASTM D2240
拉伸强度 /psi	34	ASTM D412
UL 燃烧等级	UL94 V0	—
使用温度 /°C	-40~200°C	—
导热率 W.m ⁻¹ .K ⁻¹	2.8	ASTM D5470 (modified)
击穿电压/V	>5000	ASTM D149
体积电阻率 /ohm.cm	8.0 x 10 ¹³	ASTM D257
介电常数@ 1MHz	12.4	ASTM D150
介电强度/ kV/mm	13.11	ASTM D149
有效期	24 months	—

如对产品有特殊要求，请联系我们

载体	标准
玻璃纤维 (FG)	厚度 ≤0.03" (0.75mm) 必须使用
胶布 (RC)	不建议使用
压敏胶 (PSA)	不建议使用
不粘胶 (DA)	可供厚度 ≥ 0.039" (1.0mm)使用
铝箔 (AL)	可供厚度 ≥ 0.039" (1.0mm)使用
聚酰亚胺膜 (PI)	不建议使用
滑石粉处理 (DAT)	可供任何厚度使用



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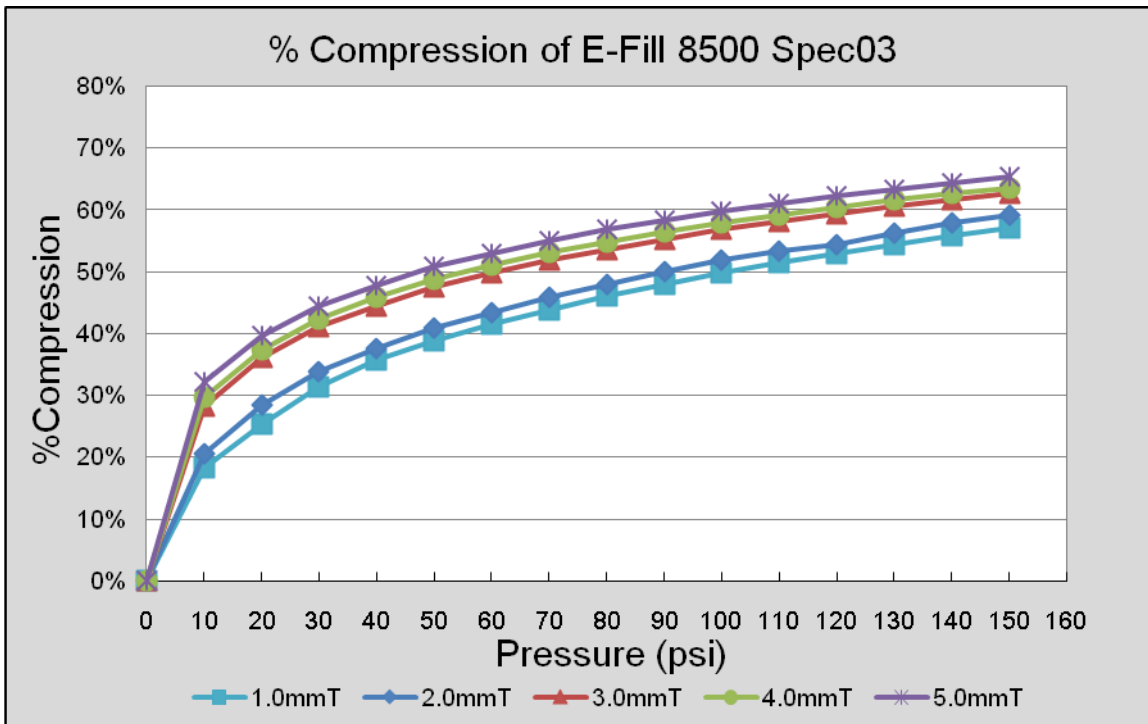
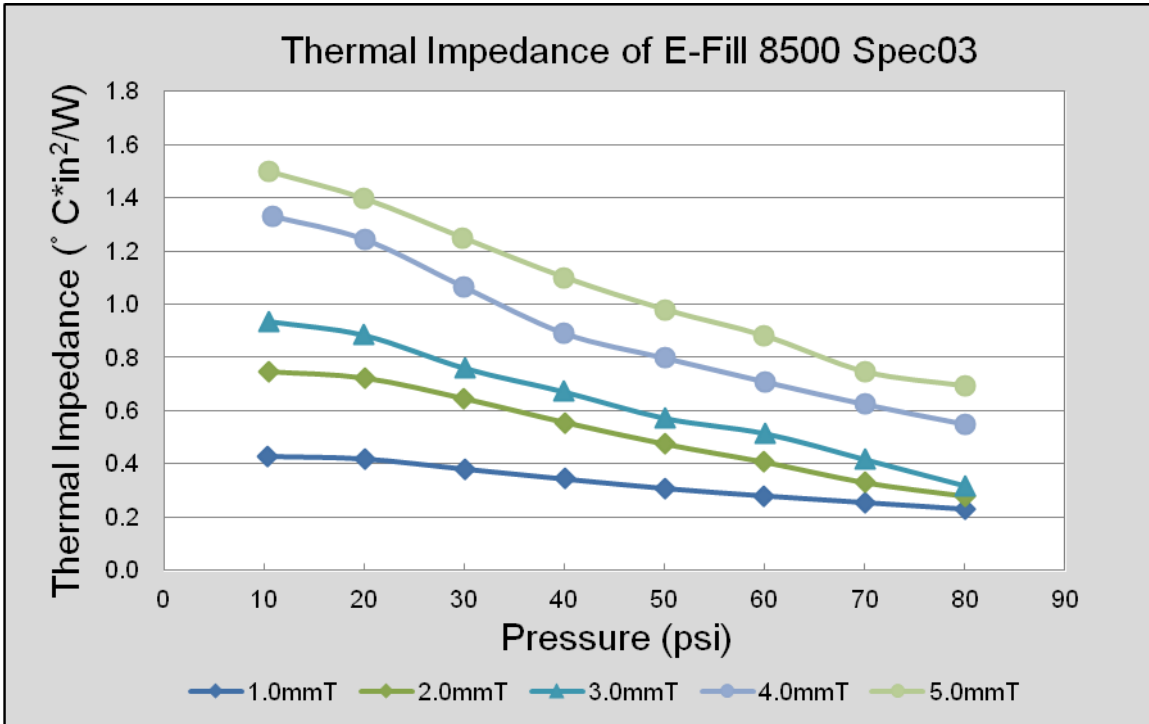
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