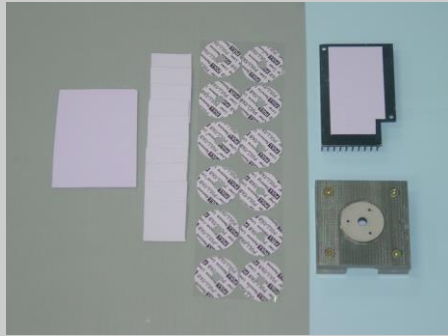


**PERFORMANCE BALANCED THERMAL GAP FILLER 3.0W/m-K**

**Features and Benefits**

- 3.0W/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 offers good thermal performance and 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 is RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

Properties	E-Fill 8500 Series	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 <sup>-3</sup>	2.98	—
Hardness /Shore 00	40	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	E109346
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m <sup>-1</sup> .K <sup>-1</sup>	3.0	ASTM D5470 (modified)
Breakdown Voltage /V	>6000 (Thickness ≤ 0.04") >10000 (Thickness ≥ 0.05")	ASTM D149
Volume Resistivity /ohm.cm	8.0 x 10 <sup>13</sup>	ASTM D257
Dielectric Constant @ 1MHz	12.4	ASTM D150
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)	Optional to all thickness
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**

E-Fill 85 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**  
FG = Fiberglass  
CB = Combination  
OT = Other

**Thickness (mil)**  
00 = Custom thickness  
40 = 40mil  
85 = 8500 Series

E-Fill = E-Fill gap filling material

**Hong Kong**  
Tel: (852) 2686 8168  
Fax: (852) 2686 8268  
E-mail: emeihk@emeigroup.com

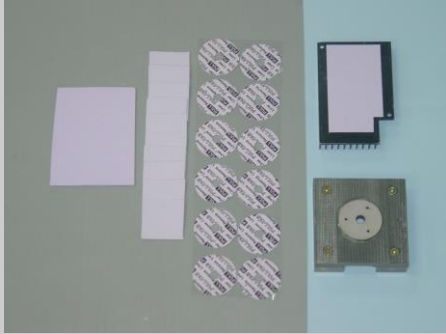
**Dongguan**  
(86) 769-8334 1628  
(86) 769-8334 2028  
emeidg@emeigroup.com

**Shanghai**  
(86) 21-5868 3381  
(86) 21-5868 3386  
emeish@emeigroup.com

**Taiwan**  
(886) 2-2793 9055  
(886) 2-2793 9501  
emeitw@emeigroup.com

**产品特点**

- 导热率 3.0W/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**

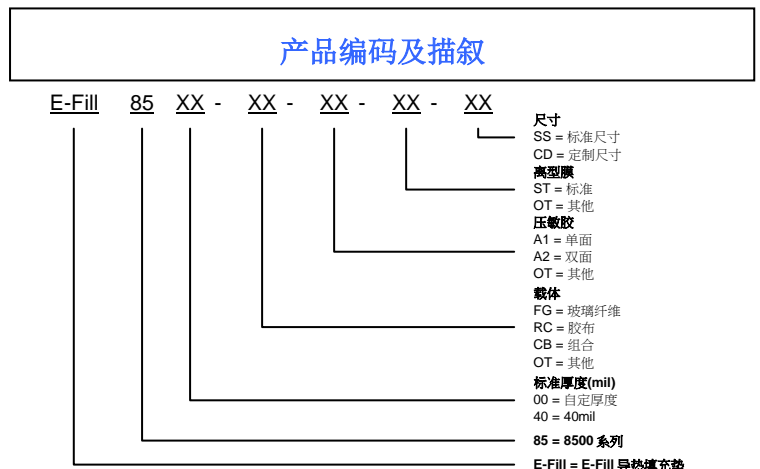
- 可模切成特定尺寸

E-Fill 8500 是一种拥有良好表面吻合度和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 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 <sup>-3</sup>	2.98	—
硬度 /Shore 00	40	ASTM D2240
拉伸强度 /psi	34	ASTM D412
UL 燃烧等级	UL94 V0	E109346
使用温度 /°C	-40~200°C	—
导热率 W.m <sup>-1</sup> .K <sup>-1</sup>	3.0	ASTM D5470 (modified)
击穿电压/V	>6000 (厚度 ≤ 0.04") >10000 (厚度 ≥ 0.05")	ASTM D149
体积电阻率 /ohm.cm	8.0 x 10 <sup>13</sup>	ASTM D257
介电常数@ 1MHz	12.4	ASTM D150
有效期	24 months	—
如对产品有特殊要求，请联络我们		

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)	可供任何厚度使用
不粘胶 (DA)	可供厚度 ≥0.039" (1.0mm) 使用
铝箔 (AL)	不建议使用
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



**香港**

Tel: (852) 2686 8168  
Fax: (852) 2686 8268  
E-mail: emeihk@emeigroup.com

**东莞**

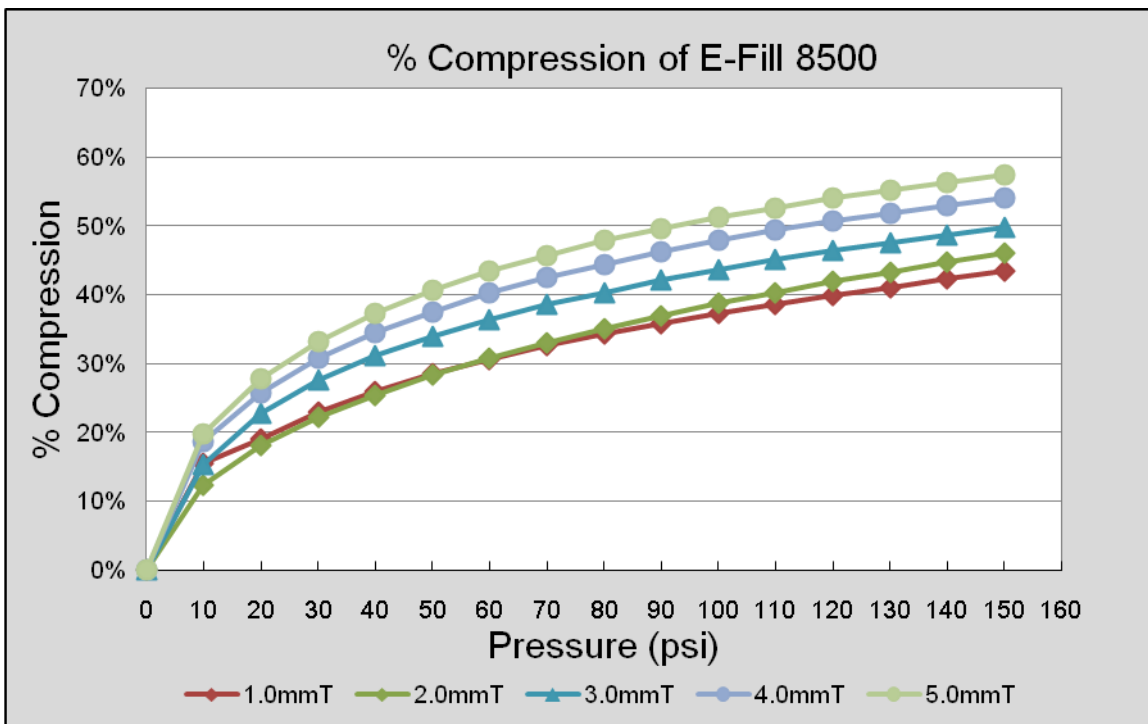
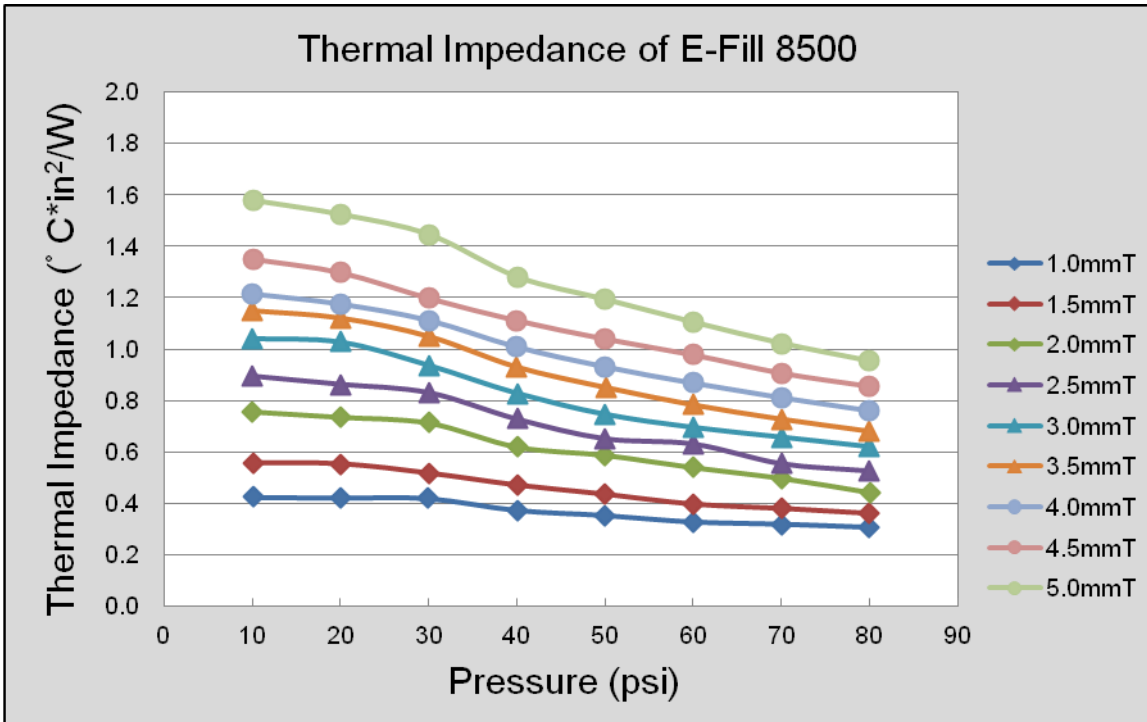
(86) 769-8334 1628  
(86) 769-8334 2028  
emeidg@emeigroup.com

**上海**

(86) 21-5868 3381  
(86) 21-5868 3386  
emeish@emeigroup.com

**台湾**

(886) 2-2793 9055  
(886) 2-2793 9501  
emeitw@emeigroup.com



**香港**

Tel: (852) 2686 8168  
 Fax: (852) 2686 8268  
 E-mail: emeihk@emeigroup.com

**东莞**

(86) 769-8334 1628  
 (86) 769-8334 2028  
 emeidg@emeigroup.com

**上海**

(86) 21-5868 3381  
 (86) 21-5868 3386  
 emeish@emeigroup.com

**台湾**

(886) 2-2793 9055  
 (886) 2-2793 9501  
 emeitw@emeigroup.com