

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

E-Fill 8300 Spec05 is a ceramic filled silicone elastomer. It is exceptionally soft and is suitable for applications that require moderate thermal performance. The formulation of E-Fill 8300 Spec05 is designed to be RoHS compliant and halogen-free, providing extra reassurance in applications where hazardous substances are forbidden.

E-Fill 8300 Spec05 is electrically non-conductive and naturally tacky. Additional adhesive is generally not required.

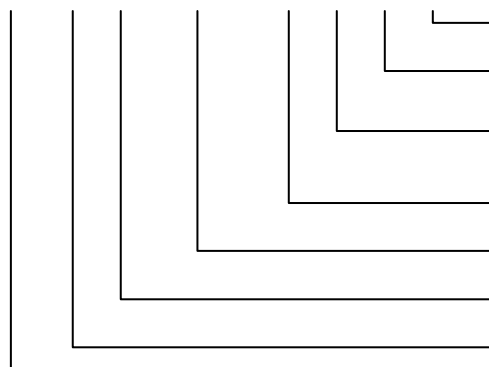
Properties	E-Fill 8300 Spec05 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Blue	Visual
Thickness Range /inch (mm)	0.01"~0.40" (0.254~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm ⁻³	1.8	—
Hardness /Shore 00	10	ASTM D2240
Tensile Strength /psi	18	ASTM D412
UL Flammability Rating	UL94 V0	E310786
Temperature Range /°C	-40~200°C	—
Thermal Conductivity W.m ⁻¹ .K ⁻¹	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 ¹³	ASTM D257
Dielectric Constant @ 1000Hz	5.1	ASTM D150
Shelf Life	24 months	—

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

E-Fill 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
40 = 40mil

83 = 8300 Series
E-Fill = E-Fill gap filling material

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产品特点

- 导热率 1.0W/m-K
- 高压缩比
- 低成本
- 具有天然粘性
- 电绝缘
- 符合 RoHS 规格
- 无卤素



一般应用

- 桌上型电脑及笔记本
- 内存模组
- 热管组件
- HDDs 和 DVDs
- 平板显示器
- 通信用硬件

其他配置

- 可模切成特定尺寸

E-Fill 8300 Spec05 是一种使用陶瓷填充物料的硅树脂弹性体。E-Fill 8300 Spec05 十分柔软，适合低压力应用，而且配方符合 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。

Fill 8300 Spec05 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。

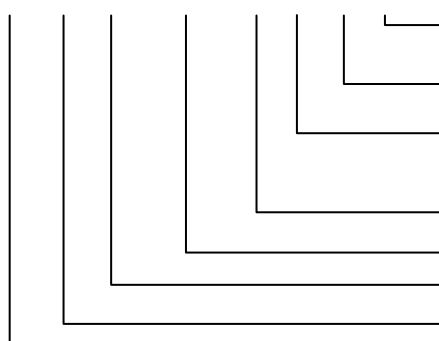
一般特性	E-Fill 8300 Spec05 系列	测试方法
结构及主要成分	硅树脂弹性体	—
颜色	蓝色	目测
厚度 /inch (mm)	0.01"~0.40" (0.254~10.16) 以 0.01" (0.254)为基本增量单位	—
标准片材尺寸	12" x 16"	—
密度 /g.cm ⁻³	1.8	—
硬度 /Shore 00	10	ASTM D2240
拉伸强度 /psi	18	ASTM D412
UL 燃烧等级	UL94 V0	E310786
使用温度 /°C	-40~200°C	—
导热率 W.m ⁻¹ .K ⁻¹	1.0	ASTM D5470 (modified)
击穿电压/V	>5000 (厚度 ≤ 0.03") >6000 (厚度 = 0.04~0.05") >10000 (厚度 ≥ 0.06")	ASTM D149
体积电阻率 /ohm.cm	3.2 x 10 ¹³	ASTM D257
介电常数@ 1MHz	5.1	ASTM D150
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)	可供任何厚度使用
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)	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

产品编码及描述

E-Fill 83 XX Spec 05 XX XX XX XX



尺寸
SS = 标准尺寸
CD = 定制尺寸
离型膜
ST = 标准
OT = 其他
压敏胶
A1 = 单面
A2 = 双面
OT = 其他
载体
FG = 玻璃纤维
CB = 组合
OT = 其他

Spec 05 = 特别产品编码
Thickness (mil)
00 = 定制厚度
40 = 40mil
83 = 8300 系列
E-Fill = E-Fill 导热填充垫

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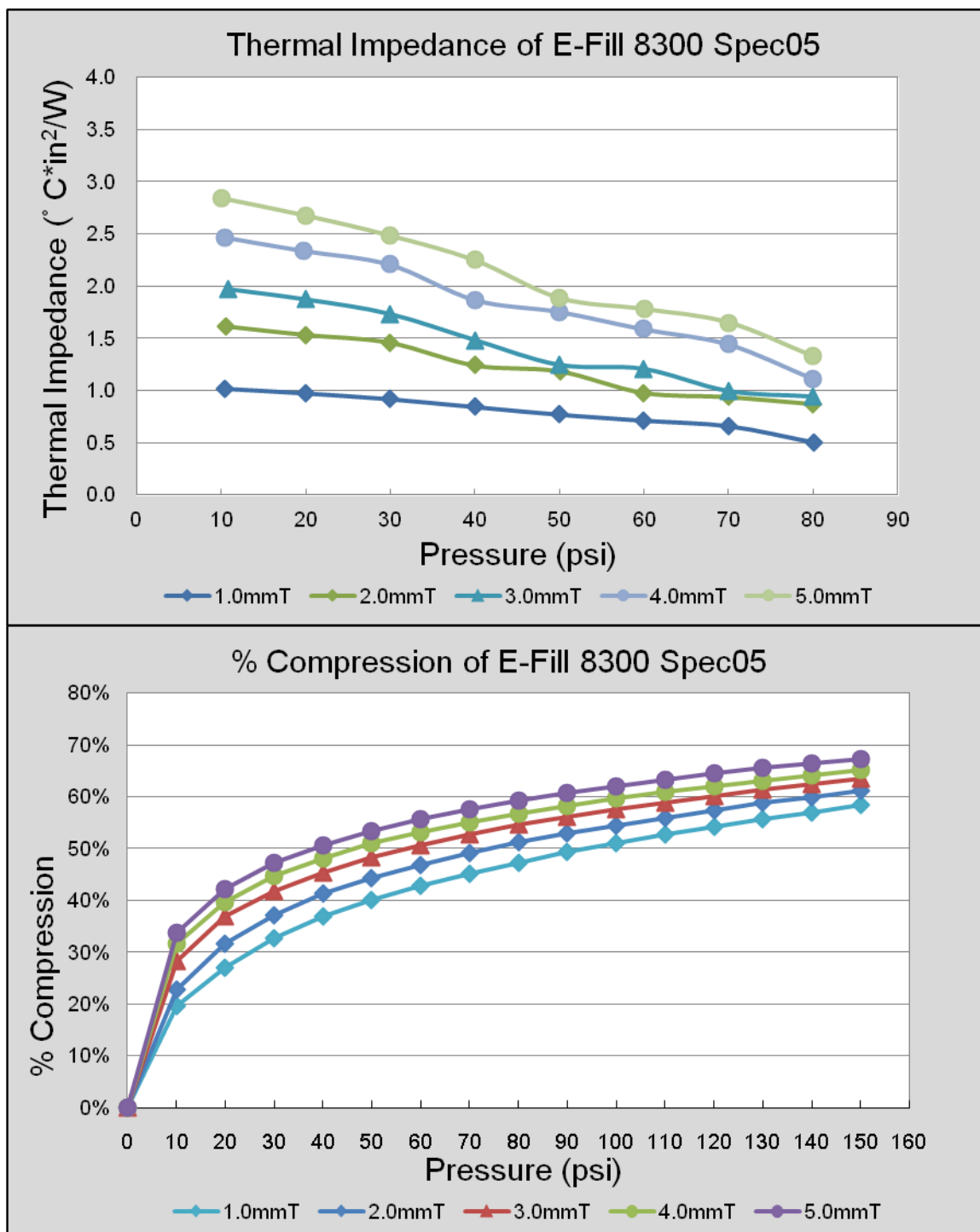
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