

**COMMERCIAL GRADE GAP FILLING MATERIAL**

**Features and Benefits**

- 1.2W/m-K thermal conductivity
- Cost effective
- Naturally tacky
- Electrically isolating
- RoHS compliant



**Typical Applications**

- High speed mass storage devices
- RDRAM memory modules
- Heat pipe assemblies
- Cooling components to the chassis, frame or other types of heat spreader
- Motor controls
- Wireless communication hardware

**Optional Configurations**

- Can be die-cut into specific dimensions

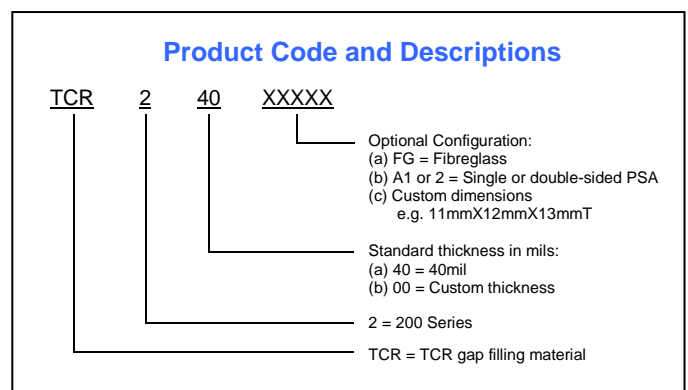
TCR 200 is an economical gap filling material. It offers moderate thermal conductivity and compressibility. It is an ideal solution for cost-sensitive applications.

TCR 200 is RoHS complaint and electrically non-conductive. It is naturally tacky and additional adhesive is generally not required.

Properties	TCR 200 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Black White-Grey Pink Blue Grey White Green Yellow	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 <sup>-3</sup>	1.76	—
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>	1.2	ASTM D5470 (modified)
Breakdown Voltage /V	6000	ASTM D149
Volume Resistivity /ohm.cm	3.0 x 10 <sup>13</sup>	ASTM D257
Dielectric Constant @ 1MHz	5.0	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)	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



**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 1.2W/m-K
- 低成本
- 具有天然粘性
- 电绝缘
- 符合 RoHS 规格



**一般应用**

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

**其他配置**

- 可模切成特定尺寸

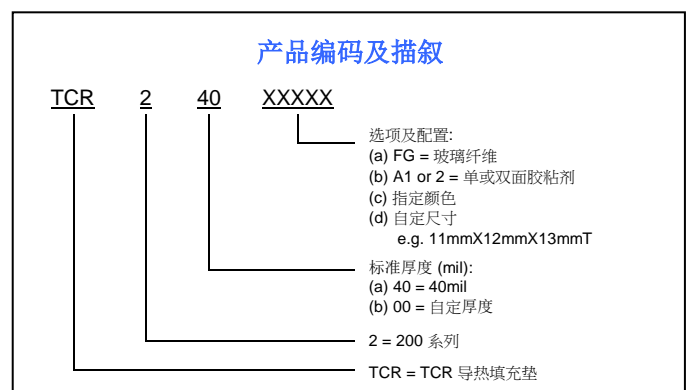
TCR 200 拥有中等导热率及压缩比并且适合应用于对成本敏感的项目。

除了对电绝缘外，TCR 200 更符合 RoHS 规格。加上拥有天然粘性的特点，在正常情况下不需要增加额外的胶粘剂。

一般特性	TCR 200 系列	测试方法
结构及主要成分	硅树脂弹性体	—
颜色	黑 灰 灰白 白 粉红 绿 蓝 黄	目测
厚度 /inch (mm)	0.02~0.20" (0.508~5.08) 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>	1.76	—
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>	1.2	ASTM D5470 (modified)
击穿电压/V	6000	ASTM D149
体积电阻率 /ohm.cm	3.0 x 10 <sup>13</sup>	ASTM D257
介电常数@ 1MHz	5.0	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**

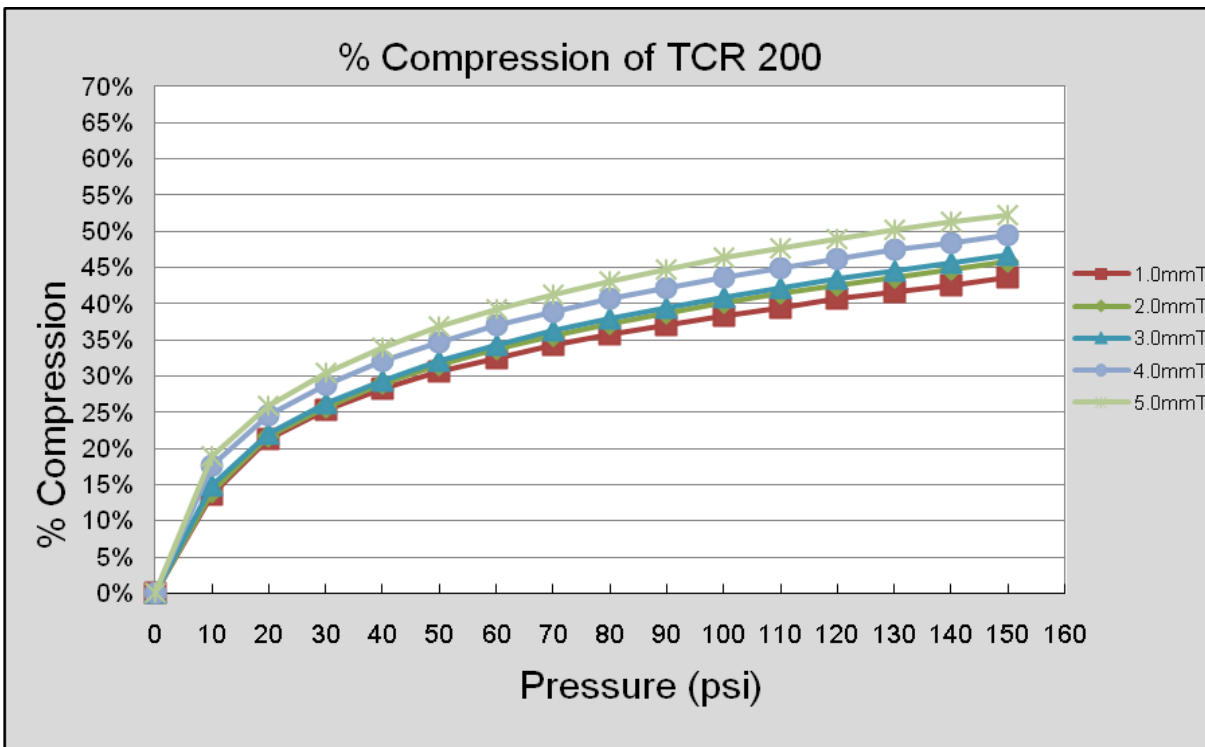
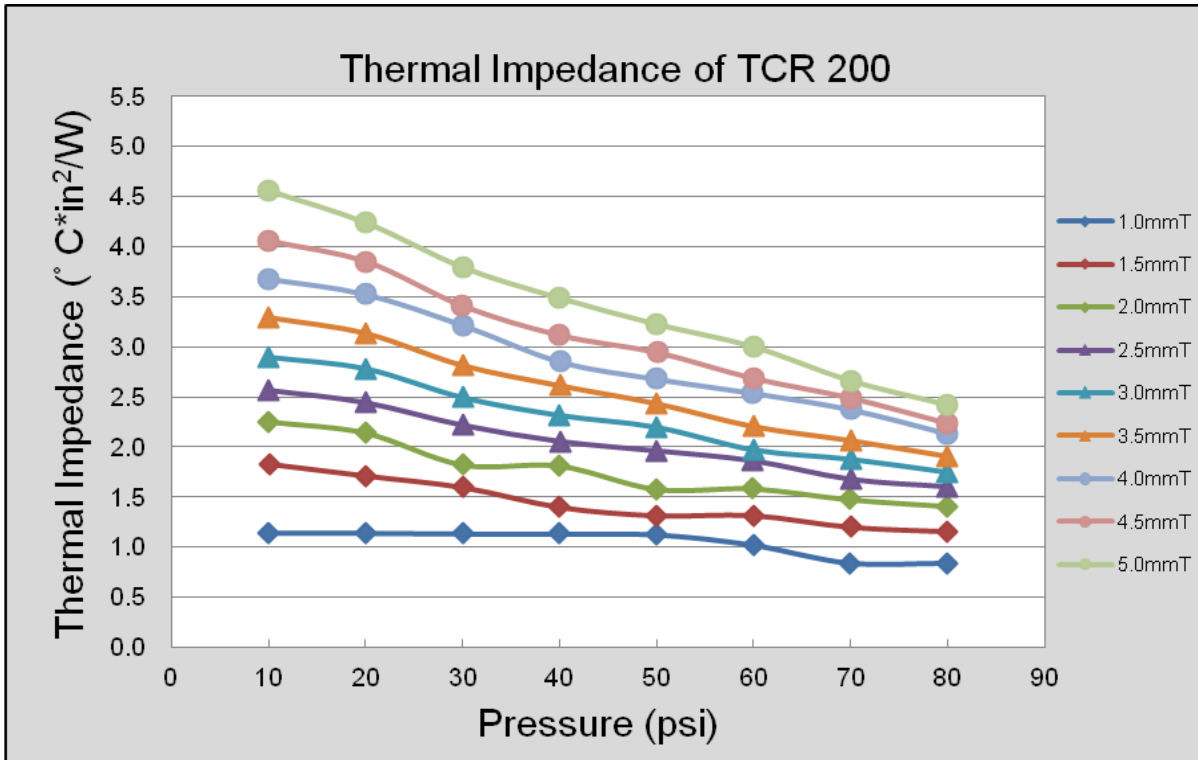
(86) 769-8334 1628  
 (86) 769-8334 2028  
 emeidg@emeigroup.com

**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