

**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 compliant, halogen free and electrically non-conductive. It is naturally tacky and additional adhesive is generally not required.

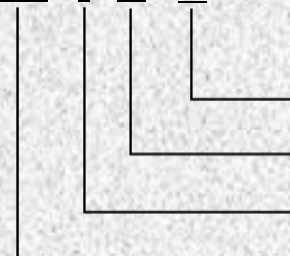
Properties	TCR 200 Series	Test Method
Construction & Composition	Soft silicone elastomer	—
Color	Black / White / Pink / Blue / Yellow / White-Grey / Grey / Green	Visual
Thickness Range /inch (mm)	0.02~0.40" (0.508~10.16) in 0.01" (0.254) increments	—
Standard Sheet Size	12" x 16"	—
Density /g.cm <sup>-3</sup>	1.76	—
Hardness /Shore 00	40	ASTM D2240
Tensile Strength /psi	34	ASTM D412
UL Flammability Rating	UL94 V0	—
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/Months	24	—

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

**Product Code and Descriptions**

TCR- 2 XX - XX



**Optional Configuration:**

- (a) FG = Fibreglass
- (b) A1 or 2 = Single or double-sided PSA
- (c) Custom dimensions e.g. 11mmX12mmX13mmT

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

**2= 200 Series**

**TCR = TCR gap filling material**

**SEM (North America) Inc.**

Tel: +1 585-643-2000  
 Fax: +1 585-427-7216  
 Address: 1600 Lexington Ave., Suite 236A, Rochester, NY 14606, USA

**SEM Belgium bvba**

+32 59 560 270  
 +32 59 560 271  
 Slijpesteenweg 28, 8432 Middelkerke (Leffinge), Belgium

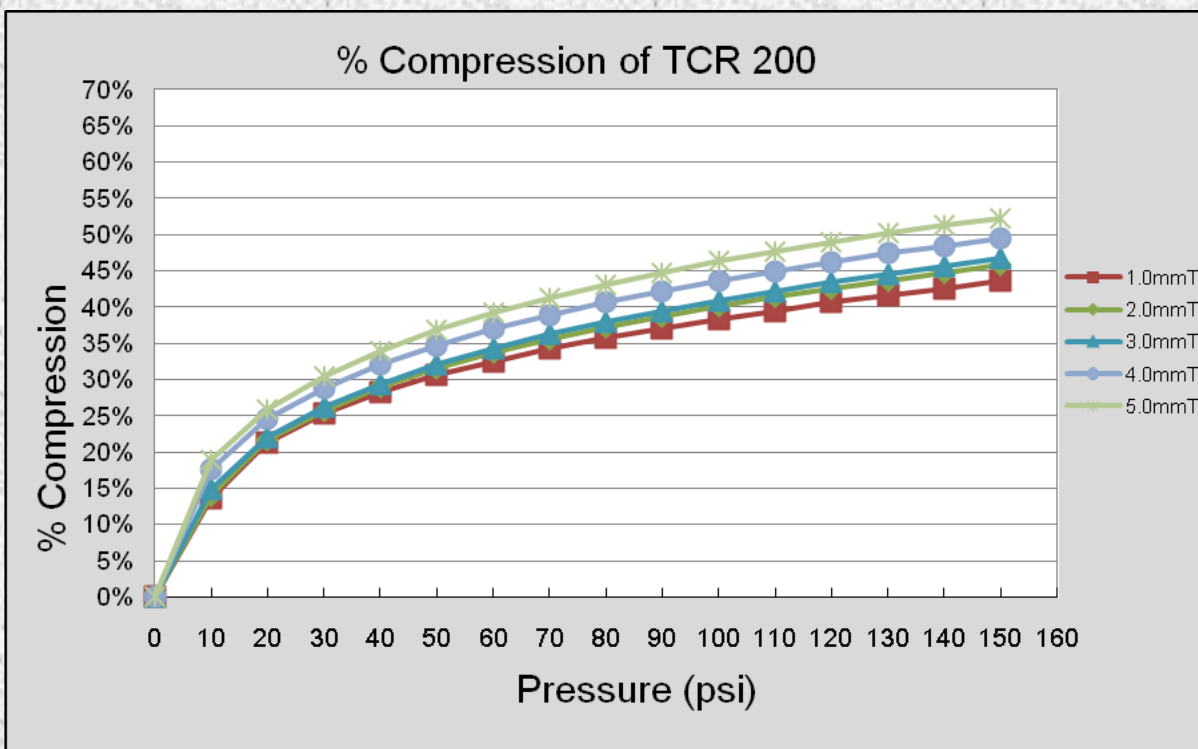
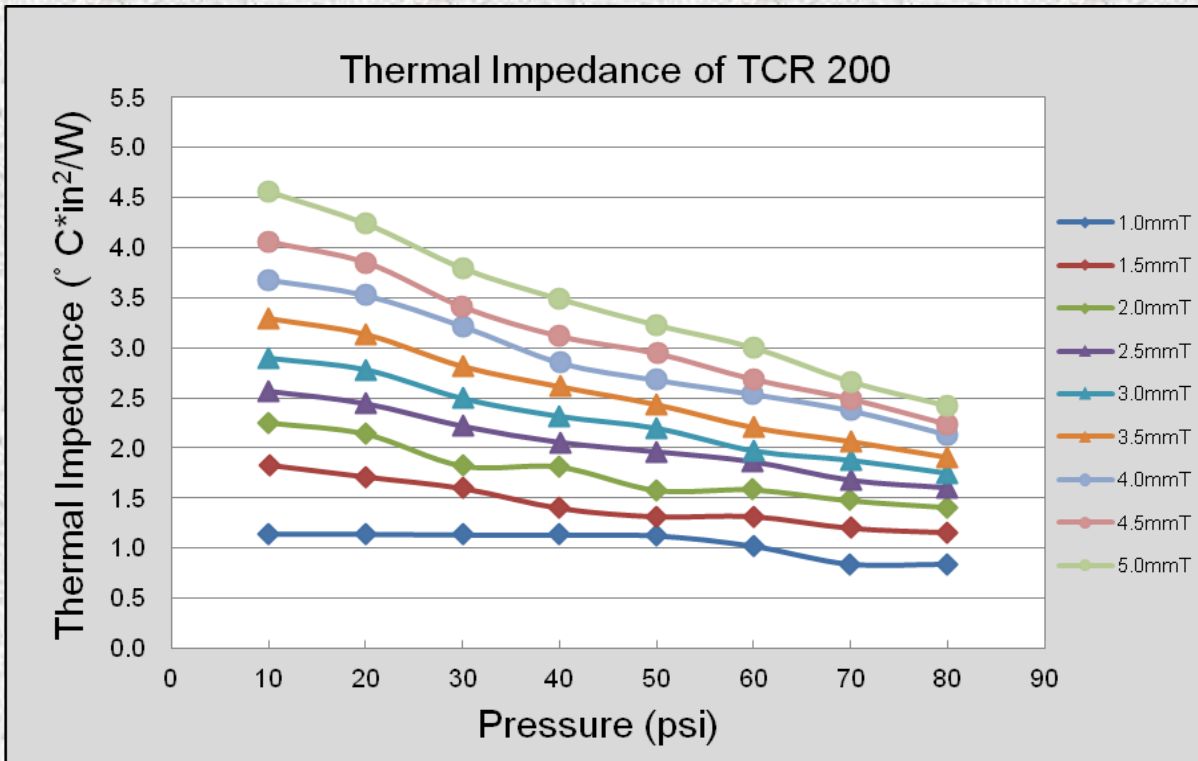
**SEM (Far East) Ltd.**

+852 2686 9872  
 +852 2686 9728  
 Unit 3, 3/F, Blk A, New Trade Plaza, No. 6 On Ping St., Shatin, N.T., Hong Kong.

**SEM (Dongguan) Ltd.**

+86-769-8356 5686  
 +86-769-8334 2028  
 No.8 Qiaoxin Rd., Qiaotou Dongguan, Guangdong, China, 523525.

Specifications and appearances may change without notice. All statements, technical information and recommendations herein are based on tests that we believed to be reliable, but the accuracy and completeness are not guaranteed. Before using, user should determine the suitability of the product for its intended use, and the user assumes all risks and liabilities whatsoever in connection therewith. Neither the seller nor the manufacturer shall be liable for any loss or damage, direct, incidental or consequential, including loss of profits or revenues arising from the use or inability to use the product. Any statements or recommendations shall have no effect unless contained in an agreement signed by authorized personnel of the seller and manufacturer.



**SEM (North America) Inc.**

Tel: +1 585-643-2000  
 Fax: +1 585-427-7216  
 Address: 1600 Lexington Ave., Suite 236A,  
 Rochester, NY 14606, USA

**SEM Belgium bvba**

+32 59 560 270  
 +32 59 560 271  
 Slijpesteenweg 28,  
 8432 Middelkerke (Leffinge),  
 Belgium

**SEM (Far East) Ltd.**

+852 2686 9872  
 +852 2686 9728  
 Unit 3, 3/F, Blk A, New Trade Plaza,  
 No. 6 On Ping St., Shatin, N.T.,  
 Hong Kong.

**SEM (Dongguan) Ltd.**

+86-769-8356 5686  
 +86-769-8334 2028  
 No.8 Qiaoxin Rd., Qiaotou Dongguan,  
 Guangdong, China, 523525.

Specifications and appearances may change without notice. All statements, technical information and recommendations herein are based on tests that we believed to be reliable, but the accuracy and completeness are not guaranteed. Before using, user should determine the suitability of the product for its intended use, and the user assumes all risks and liabilities whatsoever in connection therewith. Neither the seller nor the manufacturer shall be liable for any loss or damage, direct, incidental or consequential, including loss of profits or revenues arising from the use or inability to use the product. Any statements or recommendations shall have no effect unless contained in an agreement signed by authorized personnel of the seller and manufacturer.