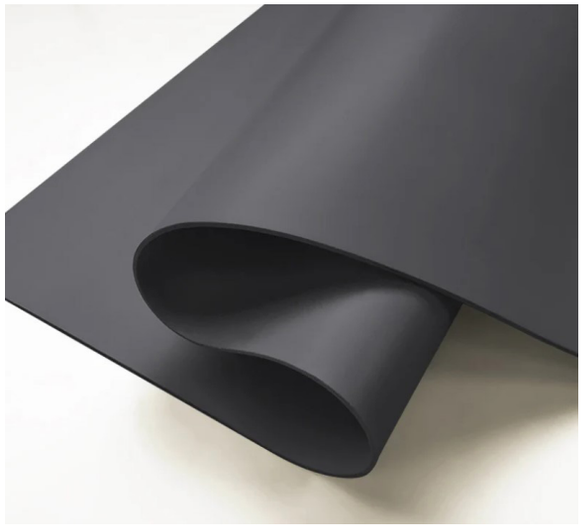
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GCSV-028
SILICONE INTERFACE MATERIAL

Product Image:



Features:

- 2.8 W/m K thermal conductivity
- High resistance to puncture, shear, and tearing
- Soft and conformable for optimal contact
- Excellent electrical insulation

Characteristics:

Characteristics	Test Method	Value
Colour	Visual	Blue/Dark Grey
Thickness (mm)	-	0.5 - 3.0
Thermal Conductivity (W/m*K)	ASTM D5470	2.8
Hardness (Shore 00)	ASTM D2240	30±5
Specific Gravity (g/cm$^{3)}$	ASTM D792	2.9±0.1
Withstand Voltage (kV/ mm)	ASTM D149	5
Operation Temperature (deg C)	EN344	-40 - +150
Volume Resistance (Ω.m)	ASTM D257	1.0*10^{11}
Compression Rate (%)	ASTM D412	25
Flame Rating	UL94	V-0

Product Configurations:

Part Number	Total Thickness (mm)
GCSV-028-200-0.5	0.5
GCSV-028-200-1.0	1.0
GCSV-028-200-1.5	1.5
GCSV-028-200-2.0	2.0
GCSV-028-200-3.0	3.0

Please note: Thicknesses vary between different products.

This material is often used in these industries:

Automotive | LED | PSU | Industrial

GCS Thermal
Kilworth Sticks Farm and Lakes, Kilworth Road, Lutterworth LE17 6JG
www.gcsthermal.com | info@gcsthermal.com | 02479 992426

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SILICONE INTERFACE MATERIAL

General Product Information:

- GCSV-028 is a high-performance thermal interface material made with silicone. It offers excellent thermal conductivity at 2.8 W/m K. This pad is designed to manage heat effectively in electronics, automotive systems, and industrial equipment.
- The material helps move heat away from critical components like processors, power devices, and batteries. It forms a reliable thermal path between surfaces, reducing heat buildup and keeping devices cool. This improves performance and extends the life of components.
- GCSV-028 combines high conductivity with mechanical strength. The silicone adds flexibility, allowing the pad to fill surface gaps and conform to uneven shapes.
- Installing the pad is simple. It doesn't require curing, adhesives, or extra steps. Just place it between the component and heat sink or spreader. The pad stays in place during operation and under thermal stress.
- GCSV-028 works well across a wide range of temperatures and environments. It resists tearing, compression, and vibration. Use it in electric vehicles, power modules, LEDs, and high-performance computing. Its consistent thermal performance makes it a trusted choice for engineers and manufacturers.
- You can choose from multiple thicknesses and sizes to fit different designs. This flexibility makes the pad ideal for tight spaces and high-power systems. It also supports faster production with fewer handling steps.
- The pad is RoHS compliant and safe to use in most environments. Its balance of thermal conductivity, strength, and ease of use makes it suitable for demanding applications.
- GCSV-028 delivers strong, reliable thermal performance. It simplifies installation and improves heat transfer. With its high conductivity and robust design, it helps protect sensitive components and support long-term system reliability in a wide range of industries.

Country of Origin: China

Product Handling:

GCSV-028 should be stored in a cool, dry environment away from direct sunlight and sources of heat.

Prior to application, ensure that all mating surfaces are clean, dry, and free from dust, grease, and any residual thermal material.

Refer to the Safety Data Sheet (MSDS) for full handling, first aid, and disposal guidance.

Cleaning:

Prior to application, all mating surfaces must be thoroughly cleaned to ensure optimal thermal performance. Surfaces should be free from dust, grease, oils, moisture, and any residual thermal interface material.

Suitable cleaning agents may be used to remove contamination; however, only non-residue, electronics-safe solvents are recommended. Ensure all surfaces are completely dry before installation of the thermal pad.

Avoid contact with sharp tools or abrasive materials during handling, as this may damage the product and affect performance.

Storage Conditions:

- Store in a cool, dry place away from direct sunlight and sources of moisture.
- Recommended storage temperature: 15°C to 25°C
- Keep the product in its original packaging until use to prevent contamination or damage.

Shelf Life:

- 24 months from the date of manufacture when stored under recommended conditions.
- Always check the product label for expiration date and batch information.

Contact Information:

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General Customer Responsibility:

- Customers are responsible for ensuring that GCS products are suitable for their intended application.
- Proper handling, storage, and installation in accordance with GCS guidelines are essential to ensure optimal product performance.
- Goods within the GCS product range may contain advanced materials that require specific handling or compliance measures, please refer to the MSDS or consult the product datasheet for details.

Customer Support:

- For technical assistance, product enquiries, or support with installation and usage, please contact: info@gcsthermal.com or visit https://www.gcsthermal.com/blogs/
- Our technical team is available to assist to ensure the product is used effectively and safely in your application.

Product Care:

- Please take care should be taken to avoid contamination, moisture, or mechanical damage before and during use.
- Avoid exposure to moisture, excessive mechanical stress, or contamination during storage and handling.
- Store in a cool, dry environment away from direct sunlight or extreme temperatures.

Product Life Cycle:

- GCS thermal interface materials are designed for long-term performance; however, their lifecycle may vary depending on operating conditions such as temperature, mechanical stress, and environmental exposure.
- Regular inspection is recommended in high-demand applications to ensure continued thermal efficiency.
- For detailed lifecycle expectations or testing data, please contact GCS Thermal and refer to Shelf Life.

Property Rights:

- All GCS products, technologies, and materials are subject to intellectual property rights owned or licensed by GCS Thermal.
- Unauthorised use, reproduction, or distribution of GCS Thermal products or documentation is strictly prohibited.
- Any trademarks, product names, or design features are the property of GCS Thermal or their respective owners.

General Terms and Conditions:

- All sales are subject to GCS Thermal's standard terms and conditions, which are available upon request or via our website.
- Customers are advised to review and understand these terms prior to purchase or use.

Directions for Use:

- GCS Thermal products are designed for easy integration into your application.
- Clean and prepare all surfaces before applying.

Contact Information:
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CERTIFICATIONS		
CHECKED 03/07/2026	REVISION 01.1	DATE 03/07/2026
DESCRIPTION GCSV-028 Silicone Interface Material		ORDER CODE GCSV-028