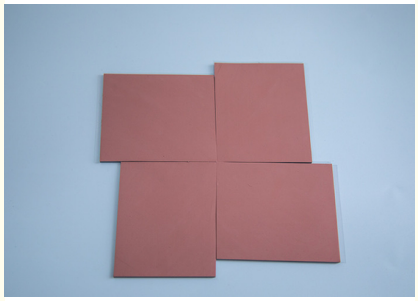
5.0 W/mK High compressibility Silicon Free Thermally Conductive Silicone Sheet

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: zhonglei
- Minimum Order Quantity: 100 m²
- Packaging Details: carton
- Supply Ability: 10000



Product Specification

- Thermal Conductivity: 5 W/mK
- Color: Red
- Thickness: 0.5~10mm
- Operating Temperature Range: -40°C To 200°C
- Chemical Resistance: Excellent
- Dielectric Strength: 10 KV/mm
- Tensile Strength: 48 Psi
- Hardness: 50 Shore A
- Highlight: **5.0 W/mK thermally conductive material**, **High compressibility thermally conductive silicone sheet**

Product Description

Product Description:

Thermally Conductive Material

Thermally Conductive Material is a heat conducting material or compound that is designed to efficiently transfer heat from one point to another. It is commonly used in various industries such as electronics, automotive, aerospace, and more.
Product Overview

Thermally Conductive Material is a highly efficient heat conducting substance with a thermal conductivity of 5 W/mK. This makes it an ideal choice for applications that require quick and effective heat dissipation.
Flame Retardant

One of the key features of Thermally Conductive Material is its flame retardant property. This means that it is designed to resist the spread of fire, providing an added layer of safety in applications where heat is generated.
Chemical Resistance

Thermally Conductive Material has excellent chemical resistance, making it suitable for use in harsh environments where it may come in contact with various chemicals. Its chemical resistance also ensures its durability and longevity.
Density

With a density of 3 G / Cbm, Thermally Conductive Material is lightweight and easy to handle. This makes it a versatile choice for a wide range of applications, as it can be easily incorporated into different designs and structures.
Dielectric Strength

Thermally Conductive Material has a high dielectric strength of10KV/mm, making it suitable for use in electrical applications. Its ability to withstand high voltage and electric fields without breaking down makes it a reliable choice for sensitive electronic components.
Conclusion

In summary, Thermally Conductive Material is a highly efficient, flame retardant, chemically resistant, lightweight, and electrically insulating heat conducting substance. Its unique properties make it a valuable choice for a wide range of industries and applications.

Features:

Product Name: Thermally Conductive Material
Thickness Tolerance: ±0.001” (±0.025mm)
Chemical Resistance: Excellent
Thermal Conductivity: 5 W/mK
Tensile Strength: 48 Psi
Thermal Conductive Putty
Heat Conductive Compound
Thermal Conductivity Material

Technical Parameters:

Parameter	Value
Hardness	50 Shore A
Operating Temperature Range	-40°C To 200°C
Thickness	0.5~10mm
Flame Retardant	Yes
Dielectric Strength	10KV/mm
Chemical Resistance	Excellent
Density	3 G / Cbm
Material	Silicone
Thermal Conductive Compound	Yes
Thermally Conductive Compound	Yes
Thermal Conductivity Material	Silicone Compound

Applications:

Thermally Conductive Material: The Perfect Solution for Heat Dissipation in the Electronic Industry

Thermally Conductive Material, also known as Thermal Conductive Putty or Thermal Conductive Adhesive, is a type of silicone-based material that is specifically designed for its high thermal conductivity and heat dissipation capabilities. It is widely used in the electronic industry, where heat management is crucial for the proper functioning of electronic devices.
Product Attributes:

Hardness: With a rating of 50 Shore A, Thermally Conductive Material is able to maintain its shape and structure while still being flexible enough to easily apply onto various surfaces.
Adhesion Strength: The strong adhesion strength of this material ensures that it stays in place and provides efficient heat dissipation without any risk of detachment.
Material: Made from silicone, Thermally Conductive Material is a non-toxic and environmentally friendly option that is also resistant to water, chemicals, and extreme temperatures.
Tensile Strength: With a tensile strength of 48 Psi, this material is able to withstand high levels of stress and pressure, making it durable and long-lasting.
Thickness: Measuring at 0.5~10mm, this material is thin enough to be easily applied onto small and delicate electronic components, while still providing efficient heat dissipation.
Application Scenarios:
Thermally Conductive Material has a wide range of applications in the electronic industry, where it is used for heat management and dissipation in various devices such as:
Computer Components: In the production of computer parts such as CPUs, GPUs, and motherboards, Thermally Conductive Material is used to efficiently transfer heat away from sensitive electronic components, preventing overheating and potential damage.
LED Lighting: LED lights emit a lot of heat, which can significantly reduce their lifespan. By using Thermally Conductive Material, the heat can be dissipated quickly and effectively, increasing the longevity of the lights.
Solar Panels: Solar panels have to withstand high temperatures and exposure to the sun. Thermally Conductive Material is used to prevent overheating and improve the efficiency of the solar panels.
Electric Vehicles: The batteries and other electronic components in electric vehicles produce a lot of heat, which can affect their performance and lifespan. By using Thermally Conductive Material, the heat can be efficiently dissipated, ensuring the smooth functioning of the vehicle.
Benefits of Thermally Conductive Material:
There are numerous benefits of using Thermally Conductive Material in the electronic industry, including:
High Temperature Resistance: With the ability to withstand high temperatures, this material is ideal for use in electronic devices that produce a lot of heat.
Efficient Heat Dissipation: The high thermal conductivity of this material allows for quick and effective heat dissipation, preventing overheating and damage to electronic components.
Electrical Insulation: Thermally Conductive Material has excellent electrical insulation properties, making it safe to use in electronic devices without the risk of short circuits or electrical malfunctions.
Easy Application: With its flexible and adhesive properties, this material can be easily applied onto various surfaces, making it suitable for a wide range of electronic devices.
In conclusion, Thermally Conductive Material is an essential product for the electronic industry, providing efficient heat dissipation and ensuring the proper functioning and longevity of electronic devices. Its unique properties make it a valuable tool for manufacturers and engineers in the electronic industry. Choose Thermally Conductive Material for all your heat management needs and experience the benefits for yourself!

Customization:

Customization Service for Thermally Conductive Material
Our **Thermally Conductive Material** is a versatile product that can be customized to meet your specific needs. With its unique combination of properties, it is the perfect solution for your thermal management requirements. Our customization service allows you to tailor the product to your exact specifications, ensuring optimal performance and efficiency.
Product Attributes:
Hardness: 50 Shore A
Thickness: 0.5~10mm
Tensile Strength: 48 psi
Thermal Conductivity: 5 W/mK
Our **Thermally Conductive Material** is a heat conductive compound that can be customized to meet your specific needs. Whether you require a room temperature or heat cure, we can adjust the curing method to suit your application. The hardness of 50 Shore A ensures a durable and long-lasting product, while the thickness of 0.06 inches (1.524 mm) provides the perfect balance of flexibility and strength. With a tensile strength of 48 psi, our **Thermally Conductive Material** is able to withstand the rigors of various thermal management applications. And with a thermal conductivity of 1.5 W/mK, it effectively dissipates heat away from critical components, preventing overheating and prolonging the lifespan of your equipment.
Our customization service also allows you to choose from a variety of forms, such as sheets, tapes, and putty. Our **Thermal Conductive Putty** is a popular choice for its ease of use and ability to conform to irregular surfaces. It is the perfect solution for filling gaps and providing a uniform thermal interface between two surfaces.
Trust us to deliver a customized **Thermally Conductive Material** that meets your exact requirements. Contact us today to learn more about our customization service and how we can help you achieve optimal thermal management in your applications.

Packing and Shipping:

Thermally Conductive Material
Packaging and Shipping
Our Thermally Conductive Material is carefully packaged and shipped to ensure its safe arrival at your doorstep. We use the following packaging methods to guarantee the quality and integrity of our product:
Individual packaging: Each unit of our Thermally Conductive Material is individually packaged in a protective plastic wrap or bag to prevent any damage during shipping.
Box packaging: For larger orders, our Thermally Conductive Material is packaged in a sturdy box with proper cushioning and padding to prevent any breakage or shifting during transportation.
Pallet packaging: For bulk orders, our Thermally Conductive Material is packaged on a pallet and shrink-wrapped to ensure stability and protection during transit.

We work with reliable and experienced shipping carriers to deliver our product to your desired location. Depending on your location and shipping preferences, we offer various shipping options to meet your needs. These include:

Ground shipping: This is the most common and cost-effective option for domestic orders within the United States.

Express shipping: For urgent orders, we offer express shipping options such as overnight or two-day delivery.

International shipping: We also ship our Thermally Conductive Material to customers worldwide. Please contact us for international shipping rates and delivery times.

At Thermally Conductive Material, we take great care in ensuring that our product reaches you in perfect condition. If you encounter any issues with your shipment, please contact us immediately and we will work to resolve the issue promptly.

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