

Pink Non Silicone Thermal Conductivity Material 3.0 W/MK Thermal Conductive Pad

Basic Information

- Place of Origin:
- Brand Name: zhonglei

China

100 m²

- Minimum Order
 Quantity:
- Packaging Details: carton



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上海中垒电气材料有限公司 Shanthai Zhongini Electric Material Co. Lid

Our Product Introduction

Product Specification

	Thermal Conductivity Material 3.0 W/MK, Pink Thermal Conductive Pad
Highlight:	Non Silicone Thermal Conductivity Material
 Siloxane Volatiles D4~D20: 	0%
• Flame Retardant:	Yes
Thickness:	0.5~5mm
Color:	Pink
Dielectric Strength:	10KV/mm
Tensile Strength:	10 Psi
Density:	3 G/cm3

Product Description:

The Thermally Conductive Material is an innovative solution designed specifically to address the critical challenges in thermal management across various industries. With the increasing power densities in electronic devices, efficient heat dissipation has become paramount. This product is a high-performance Thermal Conductivity Material that facilitates rapid heat transfer away from hotspots, thereby enhancing the reliability and longevity of electronic components.

One of the key attributes of this material is its exceptional Dielectric Strength, rated at 4.5 KV/mm. This high dielectric strength ensures that the material not only acts as a superior Thermal Conductive Putty but also provides excellent electrical insulation. It is particularly beneficial in applications where electrical isolation is as crucial as thermal conduction. This feature makes it an ideal choice for use in electrical and electronic equipment where both heat dissipation and electrical insulation are required.

The Adhesion Strength of our Thermally Conductive Material is notably strong, which ensures a secure and long-lasting bond between surfaces. This attribute is particularly important for creating a stable thermal interface that will not degrade over time. Strong adhesion is essential for maintaining efficient thermal transfer and preventing material breakdown under thermal cycling or mechanical stresses. Users can rely on this material to remain in place, even in the most demanding applications.

With a Hardness of 50 Shore A, this Heat Conducting Material strikes the perfect balance between flexibility and durability. This level of hardness indicates that the material is sufficiently soft to conform to irregular surfaces and fill in air gaps, thereby reducing thermal resistance. At the same time, it is hard enough to withstand pressure without deforming excessively, which ensures a reliable thermal interface over the lifespan of the device.

The product's Thickness of 0.5~5mm is meticulously engineered to provide optimal thermal transfer while maintaining the necessary mechanical properties. This calibrated thickness allows for sufficient material presence to conduct heat effectively without imposing significant mechanical bulk or stress on the components. It is thin enough to fit into tight spaces, yet robust enough to serve as an effective medium for transferring heat.

Moreover, the material is designed to operate within an extensive Temperature Range, from -40°C to 200°C. This wide operating range certifies that the material will perform reliably in extreme conditions, whether it's intense cold or sweltering heat. Electronics that are exposed to varying environmental conditions can benefit from this material's stability, ensuring consistent performance regardless of the ambient temperature.

The versatility of this Thermally Conductive Material makes it an invaluable asset in a multitude of applications. From consumer electronics to automotive systems, from power supplies to LED lighting, this Thermal Conductive Putty ensures that heat is distributed efficiently and effectively away from critical components. Its robustness and reliability under varying conditions make it an indispensable component for any heat-sensitive application.

In conclusion, this Thermally Conductive Material is a state-of-the-art solution for managing heat in electronic devices. Its high dielectric strength, strong adhesion, optimal hardness, precise thickness, and broad operating temperature range make it an excellent choice for designers and engineers looking to enhance thermal management in their products. With the use of this Heat Conducting Material, devices can achieve improved performance, enhanced reliability, and ultimately, a longer operational lifespan.

Features:

Product Name: Thermally Conductive Material Color: Pink Application Method: Dispensing or Brushing Thickness: 0.06 inches (1.524 mm) Material: Silicone Density: 3 g/cm³ Also known as: Thermal Conduction Material Also known as: Thermal Conductive Putty Also known as: Thermal Conductive Silicone Putty

Technical Parameters:

Parameter	Value
Chemical Resistance	Excellent
Dielectric Strength	10KV/mm
Hardness	50 Shore A
Thermal Conductivity	3W/mK
Thickness	0.5~5MM
Flame Retardant	Yes
Thickness Tolerance	±0.001" (±0.025mm)

Applications:

The **zhonglei** brand has become a renowned name in the realm of thermal management solutions, offering a variety of high-performance **Thermal Conductivity Materials** originating from **China**. As technology evolves, the need for efficient heat dissipation becomes critical across various industries and applications. The unique properties of zhonglei's thermally conductive materials, such as their **hardness of**

50 Shore A, excellent chemical resistance, and an impressive operating temperature range of -40°C to 200°C, make them ideal for a multitude of scenarios.

One of the primary applications for this type of **Thermal Transmission Material** is in electronics, where maintaining optimal operating temperatures is key to ensuring the performance and longevity of the components. zhonglei's thermally conductive material can be used as an interface material between heat sinks and high-power semiconductors. Its **dielectric strength of 4.5 KV/mm** ensures electrical insulation, while its thermal properties facilitate the quick dissipation of heat.

In the automotive industry, where reliability and durability are paramount, zhonglei's thermally conductive material can be applied as a **Thermal Conductive Adhesive**. It is used to bond heat-generating components to heat spreaders or chassis, ensuring vehicles operate safely within the designed temperature ranges. The excellent **chemical resistance** of the material means it can withstand exposure to automotive fluids, contributing to its longevity.

Furthermore, in the realm of LED lighting, where excessive heat can significantly reduce the efficiency and lifespan of the LEDs, the application of zhonglei's thermally conductive material ensures that heat is effectively transferred away from the LED junction to the heat sink. This ensures stable operation and prolongs the life of the lighting systems. The precise **thickness tolerance of ±0.001**" (**±0.025mm**) allows for consistent performance and ease of integration into complex lighting assemblies.

Additionally, the material's versatile characteristics make it suitable for use in power supplies, transformers, and other electrical equipment where effective thermal management is essential. The product's adaptability to a wide range of temperatures and conditions, coupled with its mechanical properties, makes it a preferred choice for both indoor and outdoor applications, spanning across consumer electronics, industrial machinery, and renewable energy systems such as solar panels and wind turbines.

Customization:

Introducing zhonglei's premier Thermally Conductive Material, expertly crafted to meet your heat management needs. Originating from China, this high-quality Heat Conducting Material is designed with exceptional chemical resistance to ensure durability and long-lasting performance.

Made from premium silicone, our Thermally Conductive Compound boasts excellent thermal conduction capabilities, suitable for a wide range of applications. Whether you're dispensing or brushing, the application method is straightforward and user-friendly, ensuring a seamless integration into your project.

For added safety, our Thermal Conduction Material includes a flame retardant feature, providing peace of mind in various operating environments. Moreover, with a dielectric strength of 4.5 KV/mm, it offers reliable electrical insulation, making it a versatile choice for numerous electrical and electronic applications.

Support and Services:

Our Thermally Conductive Material product is designed to provide reliable thermal management solutions for a wide range of applications. We are committed to ensuring that our customers receive the highest level of technical support and services to meet their specific needs. Our team of experts is available to provide guidance on product selection, installation, and optimization to ensure that you achieve the best possible performance and longevity from your thermal management products. We offer comprehensive technical support services, including:

Product Consultation: Our knowledgeable staff can help you determine the most suitable thermally conductive material for your

application, taking into account factors such as thermal resistance, conductivity, and environmental conditions.

Installation Guidance: We provide detailed instructions and best practices for the proper installation of our thermal materials to ensure maximum effectiveness and adherence to safety standards.

Troubleshooting: If you encounter any issues during the use of our products, our technical support team is ready to assist you in diagnosing and resolving the problem quickly and efficiently.

Performance Optimization: We can provide recommendations on how to enhance the thermal performance of your systems using our materials, including tips on improving heat dissipation and reducing hotspots.

Custom Solutions: For unique or challenging applications, we can work with you to develop custom thermal solutions tailored to your specific requirements.

We are dedicated to providing continuous support and service to ensure that our products deliver the intended performance throughout their lifecycle. Please feel free to reach out to our technical support team for any assistance you may need with our Thermally Conductive Material products.

Packing and Shipping:

Product Packaging: Our Thermally Conductive Material is packaged securely in industrial-grade, heat-resistant containers to ensure the material maintains its integrity during transit. Each container is sealed with tamper-evident packaging to guarantee product authenticity and quality. The packaging is also clearly labeled with handling instructions, product specifications, and safety information to ensure proper usage and storage.

Shipping: The product is shipped using specialized carriers that are experienced in handling sensitive materials. We offer standard and expedited shipping options to meet your delivery needs. Each shipment is accompanied by a tracking number for real-time location updates. All shipments are insured for the value of the contents, and we take every precaution to ensure that your order arrives on time and in perfect condition.

FAQ:

Q1: What types of thermally conductive materials does zhonglei offer?

A1: Zhonglei offers a variety of thermally conductive materials, including thermal pads, thermal grease, thermal tapes, and phase change materials. Each is designed to improve heat dissipation in electronics and other applications.

Q2: Can zhonglei's thermally conductive materials be customized for different applications?

A2: Yes, zhonglei's thermally conductive materials can be customized in terms of size, thickness, and thermal conductivity to meet the specific requirements of various applications.

Q3: How do zhonglei's thermally conductive materials compare in terms of thermal conductivity?

A3: Zhonglei's thermally conductive materials are designed to offer high thermal conductivity to ensure efficient heat transfer. The specific thermal conductivity values vary depending on the product and can be provided upon request.

Q4: Are zhonglei's thermally conductive materials environmentally friendly?

A4: Zhonglei is committed to environmental protection and ensures that its thermally conductive materials are compliant with

