



## ZLPP200 Black Colour Flame Retardant High Compressibility Silicone Foam Used for Insulation Systems

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: zhonglei



### Product Specification

- Uv Resistance: Excellent
- Base Material: Silicone
- Design Printing: No Printing
- Density: 0.3-0.8g/cm<sup>3</sup>
- Use: MASKING
- Elasticity: High
- Samples: Freely Provided
- Adhesive: Silicone
- Highlight: **black silicone foam sponge,  
black silicone sponge foam,  
high compressibility silicone foam sponge**

## Product Description:

The Silicone Sponge Foam product is a high-quality, versatile material designed to meet the needs of various applications requiring cushioning, insulation, and sealing. This product is engineered from premium silicone material, which ensures its durability and effectiveness in diverse environments. With its unique properties, the Silicone Sponge Foam serves as an ideal choice for industries that demand reliable and efficient solutions for their manufacturing and packaging needs.

One of the standout features of this product is its exceptional UV resistance. The Silicone Sponge Foam has been rigorously tested and proven to withstand prolonged exposure to ultraviolet rays without degrading in quality or performance. This excellent UV resistance makes it suitable for outdoor applications or environments where the material will be subject to sunlight. Users can confidently employ this product in outdoor settings, knowing that its structural integrity will remain intact over time.

Another key attribute of the Silicone Sponge Foam is its design printing, or rather, the absence of it. With no printing on the surface, this product maintains a clean and professional appearance, making it an unobtrusive addition to any application. The neutral and unprinted surface ensures that it can blend seamlessly into various designs and contexts without distracting from the overall aesthetic, which is particularly important in consumer-facing applications.

The Silicone Sponge Foam product also boasts a double-sided adhesive side. This feature simplifies the installation process, allowing the foam to be securely and easily affixed to a wide range of surfaces. The adhesive is strong and reliable, ensuring that the silicone foam remains in place under stress or movement. Whether it is used as silicone foam insulation, silicone sponge cushion, or silicone foam padding, the double-sided adhesive provides a hassle-free application that saves time and effort during assembly.

When it comes to density, the Silicone Sponge Foam is designed to offer a range from 0.3 to 0.8g/cm<sup>3</sup>. This density range ensures that the product is lightweight yet robust enough to provide effective cushioning and insulation. The chosen density allows for flexibility in use, catering to specific requirements for different applications. Products with lower densities are softer and more compressible, ideal for applications requiring a gentle touch, while those with higher densities provide more support and are suitable for heavy-duty use.

The advantage of the Silicone Sponge Foam lies in its flexibility and strong resilience. The material is designed to recover quickly from compression, making it an excellent choice for applications that involve repeated impacts or pressure. The flexibility ensures that the foam can conform to irregular shapes or surfaces, providing a snug and effective seal. Its resilience means that it will continue to perform its cushioning or insulating role over many cycles of use without significant wear or tear.

As a material for silicone foam insulation, the Silicone Sponge Foam offers superior thermal stability, ensuring that it maintains its insulative properties across a wide range of temperatures. This makes it a top choice for applications in the electronics industry, where thermal management is crucial. The foam acts as a barrier against heat transfer, protecting sensitive components from overheating and contributing to the longevity and reliability of the devices.

In the role of a silicone sponge cushion, this product provides excellent vibration dampening and shock absorption. Its ability to compress and rebound allows it to absorb impacts, reducing the risk of damage to delicate parts and equipment. The cushioning effect is particularly beneficial in the transportation of fragile items, where the foam can help prevent breakage and ensure the integrity of the contents during transit.

Finally, as silicone foam padding, the Silicone Sponge Foam adds an extra layer of protection and comfort. Whether it is used in the manufacturing of consumer products such as athletic equipment or medical devices, the padding ensures that users experience comfort and safety. The soft yet supportive nature of the foam makes it an ideal choice for products that come into direct contact with the skin or require a gentle, cushioned interface.

In conclusion, the Silicone Sponge Foam product is a multifunctional material that brings together UV resistance, double-sided adhesion, optimal density, and outstanding flexibility and resilience. These attributes make it an essential component for a variety of applications, ensuring that it stands out as a reliable choice for silicone foam insulation, silicone sponge cushion, and silicone foam padding needs.

## Features:

Product Name: Silicone Sponge Foam

Width: Customized

Design Printing: No Printing

Adhesive Side: Double Sided

Material: Silicone

Base Material: Silicone

Key Feature: Silicone Foam Insulation

Key Feature: Silicone Foam Rubber

Key Feature: Silicone Foam Sheet

## Technical Parameters:

Attribute	Details
Width	Customized
Use	MASKING
Elasticity	High
Density	0.3-0.8g/cm <sup>3</sup>
UV Resistance	Excellent
Advantage	Flexible And Strong Resilience
Base Material	Silicone

Temperature Performance	-60~+280°C
Chemical Resistance	Good
Material	Silicone

### Applications:

The zhonglei brand, originating from China, has developed an innovative Silicone Sponge Foam product designed to cater to a multitude of applications across various industries. This versatile material is characterized by its double-sided adhesive nature, utilizing a silicone base for its adhesive layer, ensuring a strong and durable bond. Moreover, the product is flame retardant, offering an additional layer of safety in applications where it is exposed to high temperatures or potential fire hazards.

One of the primary applications of the zhonglei Silicone Sponge Foam is as **Silicone Foam Padding**. This padding can be used in the manufacturing of consumer electronics where cushioning is required to protect delicate components from shock and vibration. The padding is also ideal for use in the automotive industry, providing a protective layer within car interiors to enhance passenger comfort and safety.

Another significant use of this silicone foam is as a **Silicone Foam Gasket**. These gaskets are essential in various mechanical and industrial settings, offering excellent sealing properties. They can be used in HVAC systems, preventing the leakage of air and enhancing energy efficiency. Furthermore, due to their flame retardant nature, these gaskets are particularly suitable for use in environments where they may be exposed to high temperatures or flames, such as in the aerospace or electrical industries.

Additionally, the zhonglei Silicone Sponge Foam can be engineered into **Silicone Sponge Cushions**. These cushions provide comfort and support in medical devices, personal protective equipment, or even within the sporting goods industry. The inherent characteristics of silicone ensure that these cushions are not only comfortable but also resistant to moisture, making them ideal for outdoor or marine applications.

Moreover, because the zhonglei Silicone Sponge Foam comes with a double-sided adhesive attribute, it simplifies the installation process in various scenarios. Whether it is being applied to uneven surfaces or integrated into complex product assemblies, the adhesive ensures a secure and lasting fit without the need for additional fastening components.

In summary, the zhonglei Silicone Sponge Foam product presents a multitude of application occasions and scenarios. Its flame retardant property, coupled with its strong silicone adhesive, makes it an excellent choice for industries requiring high-performance materials with safety considerations. From electronics to automotive, and from industrial seals to personal comfort solutions, this silicone foam product delivers reliability, durability, and versatility.

### Customization:

Discover the exceptional customization services for **zhonglei** Silicone Sponge Foam products. Crafted with precision in **China**, our Silicone Sponge Seals offer unparalleled flexibility and strong resilience, tailored to meet your specific needs.

We provide **free samples** to ensure our Silicone Foam Padding solutions align perfectly with your requirements. Our products are made from high-quality **silicone** material, accompanied by a reliable **silicone adhesive** for a secure application.

Benefit from the versatile use of our Silicone Sponge Cushion, featuring a **double-sided adhesive** for easy and effective mounting on a variety of surfaces. Trust in zhonglei's excellence for a superior seal and padding experience.

### Support and Services:

Our Silicone Sponge Foam products are designed for durability and performance, meeting the highest industry standards. To ensure your satisfaction and to help you utilize our products to their fullest potential, we offer a comprehensive suite of product technical support and services.

**Technical Documentation:** We provide detailed technical data sheets, application guidelines, and material safety data sheets to help you understand the specifications and proper handling of our Silicone Sponge Foam products.

**Installation Guidance:** Our experts are available to guide you through the correct installation procedures, ensuring that the product performs as expected in your specific application.

**Troubleshooting Assistance:** Should you encounter any issues with our Silicone Sponge Foam, our technical support team is ready to assist you in diagnosing and resolving problems quickly and efficiently.

**Product Customization Support:** If you require customized dimensions or properties for our Silicone Sponge Foam, we offer support in tailoring our products to meet your specific needs.

**Performance Optimization:** Our service team can provide recommendations on how to optimize the performance of our Silicone Sponge Foam in your applications, helping you achieve the best possible outcomes.

**After-Sales Service:** We are committed to your satisfaction beyond the purchase. Our after-sales support includes product follow-ups to ensure that our Silicone Sponge Foam meets your expectations and continues to perform well over time.

Our goal is to provide you with not just a product, but a solution. We are dedicated to delivering exceptional service and technical support to ensure that our Silicone Sponge Foam products contribute to the success of your projects.

### Packing and Shipping:

**Product Packaging for Silicone Sponge Foam:**

Each silicone sponge foam is individually wrapped in a protective plastic sleeve to prevent any damage or contamination. The individually wrapped sponges are then carefully placed into a sturdy cardboard box, which is lined with foam padding to ensure that the sponges remain secure during transit. The box is sealed with strong adhesive tape and labeled with product information and handling instructions.

**Shipping for Silicone Sponge Foam:**

Once packaged, the silicone sponge foam boxes are grouped together and placed onto a pallet. The entire pallet is then shrink-wrapped to provide additional stability and protection during shipping. The pallet is labeled with the necessary shipping information, including destination, weight, and any special handling instructions. It is then loaded into a delivery truck using a forklift and dispatched to the destination. Upon arrival, the shipment is carefully unloaded and inspected for any signs of damage before being accepted by the recipient.

### FAQ:

**Q: What is the material composition of the zhonglei Silicone Sponge Foam?**

**A:** The zhonglei Silicone Sponge Foam is made from a high-quality silicone material that provides excellent resilience and durability. Its unique sponge-like structure allows for both flexibility and compressibility.

**Q: Can the zhonglei Silicone Sponge Foam be used for outdoor applications?**

**A:** Yes, the zhonglei Silicone Sponge Foam is suitable for outdoor use as it is resistant to weathering, UV rays, and ozone. Its robust material composition ensures that it can withstand various environmental conditions without degrading.

**Q: Is the zhonglei Silicone Sponge Foam safe for use in food-related applications?**

**A:** While the silicone material is generally considered safe, it's important to verify whether the specific zhonglei Silicone Sponge Foam product you are considering is certified for food-grade use. Please check the product specifications or contact customer service for confirmation.

**Q: How does temperature affect the performance of the zhonglei Silicone Sponge Foam?**

**A:** The zhonglei Silicone Sponge Foam performs well across a wide range of temperatures. It maintains its flexibility and compressibility even at extreme temperatures, making it suitable for applications that experience temperature fluctuations.

**Q: Can I customize the size and shape of the zhonglei Silicone Sponge Foam to fit my specific requirements?**

**A:** Yes, zhonglei offers customization options for the Silicone Sponge Foam. You can have the product tailored to the specific dimensions and shapes you need for your project. Please contact zhonglei customer service to discuss your customization needs.



**Shanghai Zhonglei Electric Material Co., Ltd.**



+8615702120966



forwardyu@163.com



siliconerubber-product.com

No. 66, Lane 1098, Shengli Road, Qingpu District, Shanghai