FS-45 Flame-retardant Solid Silicone Rubber

TAIYALUCK



Product Description

FS-45 is a high-performance flame -retardant solid silicone rubber, mainly used as fire retardant sealing gasket. It has excellent toughness, aging- resistance and fire-retardant properties, can achieve good sealing, fire prevention, shock absorption and filling effect. FS-45 has passed the UL94 V-0 flame retardant test, and can work at -60~220℃ for a long time, meeting the safety and design requirements, and has a wide range of thickness applications. It is widely used in new energy vehicles, rail transit and other electronic industries.

Features and Advantages

- High tensile strength and good assembly ability
- Resistant to friction, suitable for the surface of equipment repeatedly disassembled
- Stable performance in extreme environments such as ultraviolet rays, ozone, extreme temperatures
- Excellent flame -retardant ability
- Compliance with smoke, fire and toxicity requirements

Typical Application

- Cushion between square shell cells
- Fireproof and smoke-proof sealing gaskets for carriages, battery packs, etc.
- UL94 V-0 flame retardant electronic sealing gasket
- Electrical and instrument gaskets
- Aerospace flexible gaskets

Product Specification

- Substrate: No substrate or with PET substrate
- Roll form: Product size can be customized according to customer requirements
- Shape: Can be die cut into various shapes
- Adhesive: No adhesive, single-sided or double-sided adhesive

Storage and Transportation

- Store in original packaging at room temperature
- Keep out open flames
- Handling and transportation as general chemicals
- Non-toxic and non-dangerous

Shelf-life

- Without Adhesive: 10 years
- With Adhesive: According to the type of adhesive

The true and reliable data information contained in this information is intended to assist you in the design of the use of the TAIYA solid silicone rubber, based on the scope of application of the product determined by our current cognition and experience, unintentionally and does not constitute any warranty, express or implied, including any warranties of merchantability to the commodity, fitness for special purposes, and does not guarantee that the user can achieve the results shown in this data for a particular purpose. For applications outside the scope, or for use under different conditions and environments, the resulting results will not be liable. Therefore, we strongly recommend that the user determine the suitability of the product before use.

Release date: 2024-11-01

Dongguan Taiyaluck Electronic Technology Co., Ltd. TEL: 0769-89793287 htttp://www.taiya.cn
Address: 36 Yongfu Street, Miaobian, Liaobu Town, Dongguan, Guangdong Province, China

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Product Physical Properties

Properties	Test Method	Typical Value
Product	/	FS-45
Color	Visual	Black
Thickness (mm) Tolerance (%)	ASTM D374/D374M /	0.50~3.18 ±10
Density (g/cm^3)	ASTM D792	1.4±0.2
Hardness (Shore A)	ASTM D2240	45±10
*Compression Set (%) (25%, 150℃, 168h)	ASTM D395	<15
Tensile Strength (MPa)	ASTM D412	≥2
Elongation at Break (%)	ASTM D412	≥200
Tear Strength (N/mm)	ASTM D624	≥10
Thermal Conductivity (W/(m·K))	ASTM E1461	0.3
Volume Resistivity (Ω•cm)	ASTM D257	>10^{14}
Flame Resistance	UL 94	V-0
UL Yellow Card File Number	/	E499089
Recommended Temperature (℃)	SAE J-2236	-60~220
RoHS Compliant	/	YES

*Suitable for silicone rubber with thickness ≤1mm.

Note: The above data is the average of the overall test, and we can be contacted for more product information.

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