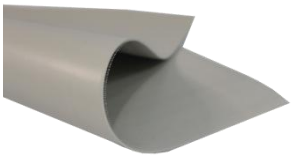
CS-70 Ceramifiable Solid Silicone Rubber

TAIYALUCK



Product Description

CS-70 is a solid silicone rubber material that can be ceramized at high temperature. It has all the characteristics of silicone rubber at room temperature. It can be transformed into a "ceramic" hard shell with self-supporting at high temperature, which has isolation effect on electricity, heat, fire and water, so as to play a good role in flame retardant, fire resistance, fire prevention and fire insulation. This material can be combined with glass fiber for integrated production. It is an ideal choice for fire insulation and flame retardant materials in railway transportation, industrial environments and electronic equipment.

Features and Advantages

- Long term withstand 1000 ℃ flame temperature without burning
- Ceramic support can be formed above 600℃
- Compliance with smoke, fire and toxicity requirements
- Excellent fire resistance
- Good resistance to aging and chemical stability

Typical Application

- Power battery pack cover with fire insulation material
- Battery module fire insulation filler
- Other fire-proof seal applications

Product Specification

- Substrate: No substrate or with glass fiber cloth 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

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Address: 36 Yongfu Street, Miaobian, Liaobu Town, Dongguan, Guangdong Province, China

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Product Physical Properties

Properties	Test Method	Typical Value
Product	/	CS-70
Color	Visual	Gray, Black
Thickness (mm) Tolerance (%)	ASTM D374/D374M /	0.2~5.0 ±10
Density (g/cm^3)	ASTM D792	1.4
Hardness (Shore A)	ASTM D2240	70±5
Compression Set (%) (25%, 150℃, 168h)	ASTM D395	<12
Tensile Strength (MPa)	ASTM D412	2
Elongation at Break (%)	ASTM D412	70
Tear Strength (N/mm)	ASTM D624	7
Thermal Conductivity (W/(m·K))	ASTM E1461	0.3
Dielectric Strength (kV/mm)	ASTM D149	>20
Volume Resistivity (Ω•cm)	ASTM D257	>10^{14}
Burning Test (1200℃，30 min)	Internal	No crack
Flame Resistance	UL 94	V-0
UL Yellow Card File Number	/	E499089
Recommended Temperature (℃)	SAE J-2236	-60~220

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

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