TH-1000 MicroES® Hard Silicone Foam

TAIYALUCK



Product Description

TH-1000 is a high performance flame retardant rigid silicone foam material, mainly used for shock absorption requirements of the buffer pad, return rubber frame and so on. It has high hardness, excellent toughness, aging resistance and fire retardant properties, and can achieve good flame retardant, shock absorption and buffering functions. TH-1000 can work at -55~200℃ for a long time, meet the safety and design requirements, and has a wide range of thickness, which is widely used in new energy vehicles, electronics industry and other industries.

Features and Advantages

- 0.8~12.7mm, with a rich thickness selection
- Excellent cushioning and shock absorption
- Flexible and long-lasting resilience
- Stable performance in extreme environments such as ultraviolet rays, ozone, extreme temperatures
- UL94 V-0 level of flame retardant properties

Typical Application

- Support pad and baffle of glue between modules and cells
- New energy vehicle hollow square frame and end plate foam
- Cushioning for the battery forming and electronics industries
- Other cushioning gaskets

Product Specification

- Substrate: No substrate or with customized 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 silicone foam, 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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Product Physical Properties

Properties	Test Method	Typical Value
Product	/	TH-1000
Color	Visual	Black
Density (kg/m^3)	ASTM D1056	950~1150
Thickness (mm) Tolerance (%)	ASTM D374/D374M /	0.8~12.7 ±10
Compression Set (%) (max, 25%, 100℃, 22h)	ASTM D1056	<5
Hardness (Shore A)	ASTM D2240	40
25% Compression Force Deflection (kPa)	ASTM D1056	1100
Tensile Strength (MPa, min)	ASTM D412	2.0
Elongation at Break (%, min)	ASTM D412	110
Water Absorption (%)	ASTM D1056	<5
Thermal Conductivity (W/(m·K))	ASTM E1461	0.2
Dielectric Strength (kV/mm)	ASTM D149	>6
Volume Resistivity (Ω•cm)	ASTM D257	>10^{14}
Flame Resistance	UL 94	V-0
Recommended Temperature (℃)	SAE J-2236	-55~200

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

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