TZ-500 MicroES® Silicone Foam

TAIYALUCK



Product Description

TZ-500 as the medium hardness silicone foam, has good compressible, at the same time have excellent resilience to work, good weather-ability and long-term stability. TZ-500 has a wide range of thickness options and is easy to process. It is an ideal choice for supporting foam in industrial, new energy and energy storage fields.

Features and Advantages

- 0.8~25.4mm, with a rich thickness selection
- Soft fit to provide good padding and make up for tolerances
- Good elasticity, resistance to compressive deformation, and low stress relaxation
- Stable performance in extreme environments such as ultraviolet rays, ozone, extreme temperatures
- UL94 V-0 level of flame retardant properties

Typical Application

- Floating floor support
- Liquid cooling plate support inside the battery pack
- Cushioning pad and gasket

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	/	TZ-500
Color	Visual	Gray, Black
Density (kg/m^3)	ASTM D1056	500
Thickness (mm) Tolerance (%)	ASTM D374/D374M /	0.8~25.4 ±10
Compression Set (%) (max, 50%, 100℃, 22h)	ASTM D1056	<5
25% Compression Force Deflection (kPa)	ASTM D1056	110
Tensile Strength (kPa, min)	ASTM D412	400
Elongation at Break (%, min)	ASTM D412	70
Water Absorption (%)	ASTM D1056	<3
Thermal Conductivity (W/(m·K))	ASTM E1461	0.08
Dielectric Strength (kV/mm)	ASTM D149	7.5
Volume Resistivity (Ω•cm)	ASTM D257	>10^{12}
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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