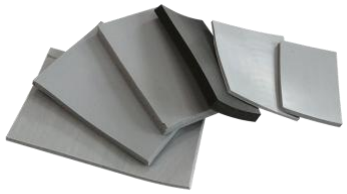
TS-300 MicroES® Silicone Foam

TAIYALUCK



Product Description

TS-300 is a soft silicone foam with highly compressible properties. As low-softness silicone foam, it has excellent resilience, good weather resistance and long-term working stability. The advantages of light weight, high softness and good flame retardant properties makes the TS-300 ideal for filling, cushioning and damping in demanding new energy, energy storage, industrial and electronics applications.

Features and Advantages

- 1.2~25.4mm, with a rich thickness selection
- Ultra-low softness can meet the low closing force to close the shell, and protect the device from the environmental impact
- Stable performance in extreme environments such as ultraviolet rays, ozone, extreme temperatures
- Soft fit to provide good padding and make up for tolerances
- UL94 V-0, HF-1 level of flame retardant properties

Typical Application

- Vacuum foam filling assembly with fixed gap
- Cushioning of electrical components and battery packs
- Low closing force washer

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	/	TS-300
Color	Visual	Gray, Black, White
Density (kg/m^3)	ASTM D1056	270
Thickness (mm) Tolerance (%)	ASTM D374/D374M /	1.2~25.4 ±10
Compression Set (%) (max, 50%, 100℃, 22h)	ASTM D1056	<5
25% Compression Force Deflection (kPa)	ASTM D1056	20
Tensile Strength (kPa, min)	ASTM D412	150
Elongation at Break (%, min)	ASTM D412	50
Thermal Conductivity (W/(m·K))	ASTM E1461	0.05
Volume Resistivity (Ω•cm)	ASTM D257	>10^{14}
Flame Resistance	UL 94	V-0, HF-1
UL Yellow Card File Number	/	E499089
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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