HP-50 High Performance Solid Silicone Rubber

TAIYALUCK



Product Description

HP-50 is a solid silicone rubber with high performance. It has excellent toughness, aging resistance and insulation properties. It can achieve good sealing, vibration damping and filling, and is also used for water and friction resistance. HP-50 can work at -60~220℃ for a long time, meet the safety and design requirements, and has a wide range of thickness, 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
- Excellent cushioning and damping performance
- Stable performance in extreme environments such as ultraviolet rays, ozone, extreme temperatures
- Compliance with smoke, fire and toxicity requirements

Typical Application

- Buffer gasket for battery module and frame
- Sealing gasket for electronic equipment
- Flexible gasket for high temperature and high pressure
- Sealing gasket for electrical appliance and instrument

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

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Product Physical Properties

Properties	Test Method	Typical Value
Product	/	HP-50
Color	Visual	Black, Red
Thickness (mm) Tolerance (%)	ASTM D374/D374M /	0.50~3.18 ±10
Density (g/cm^3)	ASTM D792	1.1±0.2
Hardness (Shore A)	ASTM D2240	50±5
*Compression Set (%) (25%, 150℃, 168h)	ASTM D395	<15
Tensile Strength (MPa)	ASTM D412	5.5
Elongation at Break (%)	ASTM D412	300
Tear Strength (N/mm)	ASTM D624	20
Volume Resistivity (Ω•cm)	ASTM D257	10^{15}
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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