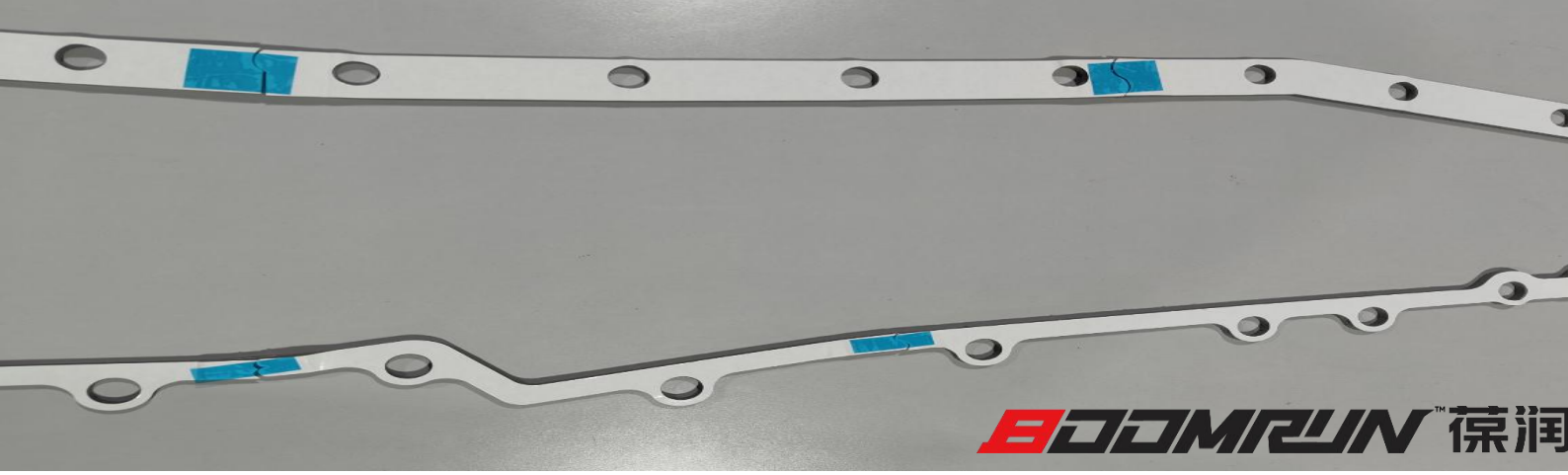

Silicon Foam Seal Rings

Silicone foam sealing rings use organosilicon as the base material, with excellent compression resistance to permanent deformation, high/low temperature resistance (-60-200℃), and good flame retardant. The usage of hot lap technology show excellent cost advantage, have passed the long-term durability test, and comply with the RoHS, REACH, ELV directives.

Strengths and advantages

- Adjustable compression performance;
- V-0 flame retardant;
- Comply with RoHS, REACH, ELV directives;
- Clear process, high feasibility for mass production.

Apply

Seal for new energy vehicle batteries and energy storage batteries.

Serve

- Packaged products can be provided according to customer drawings;
- Application testing services for different temperature scenarios can be provided.

Instructions for use

- Do not bend this product during installation to prevent air leakage and bulging.
- Since Booer cannot guarantee that the product will be suitable for all potential applications, it is recommended to test the product in a simulated operating environment prior to mass production to confirm that it meets the application requirements.

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Silicon Foam Seal Rings

Typical technical parameters

Property	Unit	Typical value	Remark（Test method）
Physical characteristics			
Density	kg/m³	550 ± 50	GB/T 17911-2018
Water absorption	%	≤5	GB/T 5480-2017
Water absorption	MPa	≥0.8	GB/T 17911-2018
Elongation at break	%	≥200	GB/T 17911-2018
EN Compression Set	%	< 1	ASTM D1056 TEST D，50%，70℃@22h
	%	< 5	ASTM D1056 TEST D，50%，100℃@22h
Flammability			
Flammability	--	V0	UL94
Electrical properties			
Electrical and thermal properties	kV/mm	≥4	GB/T 1408.1-2017
Insulation resistance	GΩ	≥10	ASTM D257(1000V DC，60s)
Long-term weather resistance			
High temperature aging and waterproof test	--	IPX7	30%，120℃@125h
	--	IPX7	50%，120℃@125h
	--	IPX7	70%，120℃@125h
Alternating high and low temperature and waterproof test	--	IPX7	50%，95%RH，－40℃~100℃，at each extreme temperature for 12 hours, cycle twice
Low temperature resistance	--	Without crack	ASDM D1056, -40℃@24h
Prohibited substances			
ELV	--	PASS	GB/T 30512-2014
RoHS	--	PASS	RoHS Directive 2011/65/EU & (EU)2015/863 Annex Ⅱ

Note:

1. Other technical parameters are available;

2. Typical data is the average of performance, if you need to know the technical requirements, please contact BOOER.

Statement：The data in this article is for reference only, and is subject to actual application (due to the relationship between the process and the substrate), and we are not responsible for the results obtained by anyone using methods beyond our control. Booer expressly disclaims any liability for any incidental or consequential loss, including loss of profits. It is recommended that users do experiments based on the data provided in this article before using it before using it.