



Conductive Foam 27-111 Series

Version TDS.27-111 V.B.4

Description

JONES-Conductive Foam 27-111 is an electrically conductive adhesive foam tape for RF shielding and RF grounding. It is constructed of Nickel/Copper plated polyurethane foam backed on Ni/Cu plated nonwoven fabric substrate coated with a conductive pressure sensitive adhesive (PSA).

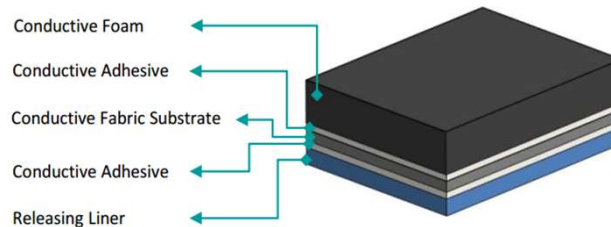
27-111 conductive foam provides an easy and economical solution to applications requiring excellent electrical conductivity between the contact flange or substrates. The foam tape can be used to fill gaps cross the substrate to keep RF electrical continuity achieving high RF grounding.



Typical Properties

Properties	27-111	Test Method
Thickness (mm)	0.2~12	ASTM D-3652
Density (kg/m ³)	50~100	ASTM D 3574
Color	Gray/Black	Visual
Physical		
Adhesive Peel Strength to SUS (N/25mm)	>20	ASTM D3330
Compression Set, %	<20	ASTM D 3574
Tensile Strength (MPa)	>3	ASTM D412
Tensile Elongation (%)	>18	ASTM D412
Electrical		
Surface Resistivity (Ω)	≤0.2	ASTM F390
Shielding Effect		
Shielding Effectiveness 100MHz/6GHz(dB)	>100	ASTM D4935
Usage		
Temperature (°C)	-45~85	—
RoHS Compliant	YES	—
Regulatory		
Flammability Rating	HB	—
Shelf Life (months)	12	—

Structure Of Conductive Foam



Benefits

- Lighter material
- Low compression force
- Excellent shielding effect
- RoHS compliant
- Halogen free

Applications

- Smartphones
- Tablets
- Notebooks / PCs
- Mobile devices
- Wearable electronics

Cautions For Adhesive

Keep the attaching surface clean and dry to reach the best effect to adhesive.

The best operating temperature range is 15°C~35°C. It will be better if the temperature of attaching surface is higher than 10°C. If it has been stucked correctly, generally the low temperature will not affect the constant adhesive effectiveness.

Standard Product

Part Number	Thickness	Tolerance
27-111-002	0.2mm	±0.1
27-111-003	0.3mm	±0.1
27-111-005	0.5mm	±0.1
27-111-008	0.8mm	±0.2
27-111-010	1mm	±0.2
27-111-015	1.5mm	±0.2
27-111-0175	1.75mm	±0.2
27-111-020	2mm	±0.2
27-111-025	2.5mm	±0.2
27-111-030	3mm	±0.3
27-111-035	3.5mm	±0.3
27-111-040	4mm	±0.4
27-111-045	4.5mm	±0.4
27-111-050	5mm	±0.5
27-111-055	5.5mm	±0.5
27-111-060	6mm	±0.5
27-111-065	6.5mm	±0.5
27-111-070	7mm	±0.5
27-111-080	8mm	±0.5
27-111-090	9mm	±0.5
27-111-100	10mm	±0.5
27-111-110	11mm	±0.5
27-111-120	12mm	±0.5

Order Information

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Material Thickness Dimension

Storage Requirement 12 months from delivery date, storage at temperature between 0 and 40°C, humidity ≤ 70%RH, and avoid direct sunlight.

Disclaimers

- The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the issuing date of this TDS. When using our products, no matter what type of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this TDS are subject to change without prior notice.
- Do not use the products beyond the specifications described in this TDS. This TDS explains the typical performance of the products as individual component. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.

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