

Description

JONES 11-232 is made by coating conductive silicone rubber on non-conductive silicone strip. It is one low cost, better mechanical performance and good shielding effect product. The conductive side, with Ag/Al inside, provide EMI shielding and corrosion protection. The outer, non-conductive gasket acts as an extra environmental seal to keep moisture away from the conductive gasket interface. Most importantly, the coating process provides thinner conductive layer thickness than Co-extrusion strips, which make good benefit in coat down. And the product size can be customized.



Typical Properties

Properties		11-232	Test Method	
Electrical	Volume resistance	$\leq 0.008\Omega \cdot \text{cm}$	MIL-DTL-83528	
	Conductive layer thickness	0.15mm	-	
Physical	Based material	Silicon rubber	-	
	Filler	Silver/Aluminum	-	
	Color	Silicone side	Red	-
		Conductive side	Yellow	-
	Density	Silicone side	$1.2 \pm 0.25 \text{ g/cm}^3$	ASTM D2638
		Conductive side	$2.0 \pm 0.1 \text{ g/cm}^3$	-
	Hardness (ShoreA) ^a	Silicone side	50	ASTM D2240
		Conductive side	70	-
	Tensile strength ^a	Silicone side	$\geq 4\text{MPa}$	ASTM D412
		Conductive side	$\geq 1.5\text{MPa}$	-
	Elongation at break ^a	Silicone side	$\geq 400\%$	ASTM D412
		Conductive side	$\geq 150\%$	-
	Tear strength ^a	Silicone side	$\geq 16\text{N/mm}$	ASTM D624
		Conductive side	$\geq 8\text{N/mm}$	-
Compression set ^b		$\leq 30\%$	ASTM D395	
100% tensile ^b	No obvious damage at conductive layer		-	
Flammability ^c		V0	UL94	
Mold rate		0	GB2423.16	
Shielding Effect	Average shielding effect 0-8GHz	80dB	Jones INS 04/2	

a: Tested on molded sheets

b: Tested on coated strip

c: Tested on 2mm sheet with aluminum sheet both side

Storage

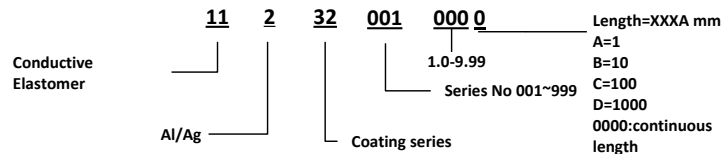
Sealed with drier and keep away from light

RoHS/Reach information

Jones 11-232 fulfills the requirements set by the EU Directive 2002/95/EC (RoHS) and Reach

Ordering information

Use this part number system when ordering JONES Conductive Elastomer.



Benefits

- Low Cost for thinner conductive layer
- Shielding Effective
- Excellent integrated environmental sealing
- Low compression force and excellent mechanical properties
- Corrosion resistance

Applications

- Telecom base stations
- Various casting

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.
- The product provided in this TDS compliance with HSF.

