



UL 94V0 RATED NI/CU POLYESTER KNITTED MESH FABRIC-OVER-FOAM

Laird Technologies' Fabric-over-Foam (FoF) 51N EMI gaskets provide excellent EMI shielding performance for customers where EMI issues occur. The 51N series EMI gaskets are composed of electrically conductive knitted mesh wrapped around a soft urethane foam core. They are supplied with either a conductive or non-conductive pressure sensitive adhesive (PSA), and can be equipped with an Extended Release Liner (ERL) on the adhesive. The 51N is a halogen-free, UL 94V0 rated product that can be created with cross-section profiles such as rectangle, D, C, P, T, knife, bell shapes, and others. The 51N EMI gaskets can be further customized to an application by die-cutting, hole punching, notching, etc.

FEATURES

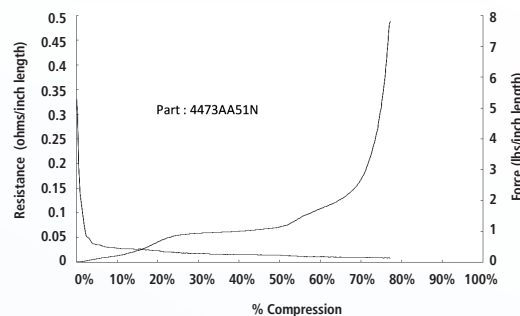
- Fabric-over-Foam gaskets are RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- UL 94V0
- Low surface resistivity of $< 0.10 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of > 70 dB across a wide spectrum of frequencies
- Extremely low compression forces allow for use of lighter materials
- Fabric is highly conductive to provide good EMI shielding and grounding
- Abrasion resistant metallized fabrics show virtually no degradation in electrical performance after 750,000 cycles
- Available with conductive or non-conductive PSA
- Many cross-section profiles available such as rectangle, D, C, P, T, knife, bell and more
- Profile gaskets can be cut to specified lengths, kiss-cut on release liner, or mitered to form frame configurations

MARKETS

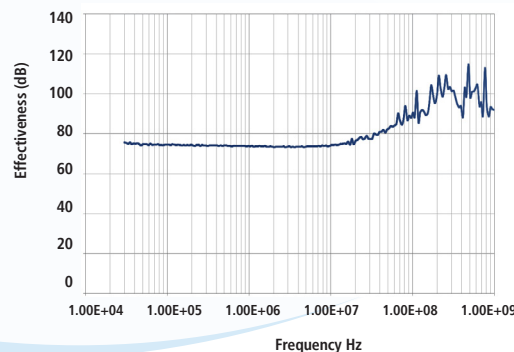
- Cabinet applications
- LCD and Plasma TV
- Medical equipment
- Servers
- Printers
- Laptop computers
- Networking equipment
- Desktop computers
- Telecommunications cabinets



FORCE/DISPLACEMENT/RESISTANCE (FDR)



SHIELDING EFFECTIVENESS (dB)



global solutions: local support™

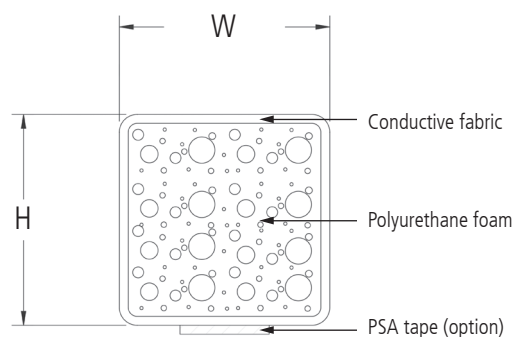
USA: +1.866.928.8181

Europe: +49.0.8031.2460.0

Asia: +86.755.2714.1166

Item	Unit	Value	Test Method
Shielding Effectiveness			
at 100 MHz		81	SAE-ARP-1705(Mod.)
at 1 GHz	dB	85	(W10 mm x H8 mm)
Surface Resistivity	Ω/\square	< 0.10	ASTM F390
Compression Set	%	< 20	ASTM D3574
Operation Temperature	°C	-40 ~ 70	-
Flame Retardant	UL 94V0 (UL file No.E170327)		
Hazardous Substance	Compliant with RoHS (Directive 2011/65/EU)		
	Compliant with SONY ss-00259		
	Halogen-free (based on IEC-61249-2-21)		
	Antimony-free		
Shelf Life	12 months at 23°C/ 60% R.H.		

COMPOSITION OF PRODUCT



PRESSURE SENSITIVE ADHESIVE (PSA TAPE) OPTIONS

Name	Type	Thickness (mm)	Peel strength on stainless steel (JIS Z 0237)	Z-axis Resistance
LT-301	Conductive PSA	0.09	> 1.3 kgf/25 mm	< 0.05 Ω
LT-350	PSA	0.12	> 2 kgf/25 mm	-

*Other PSA can be provided. Contact Laird Technologies engineering.

ORDERING INFORMATION

PART NUMBER EXAMPLE

Digits: 1 2 3 4 5 6 7 8 9 10 11 12 13 14

4 2 1 6 A A - 5 1 N - 0 1 4 0 0

Profile Shape & Details Product Name Part Length

EMI-DS-FOF-51N 0712

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