



UL 94HB RATED NI/CU POLYESTER TAFFETA FABRIC-OVER-FOAM

Laird Technologies' Fabric-over-foam (FoF) 221 EMI gaskets provide excellent EMI shielding performance for customers where EMI issues occur. The 221 series EMI gaskets are composed of electrically conductive fabric wrapped around a thermo-plastic elastomer (TPE) 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 221 is a UL 94HB rated product that can be created with cross-section profiles such as rectangle, D, knife, bell shapes, and others. The 221 EMI gaskets can be further customized to an application by die-cutting, hole punching, notching, etc.

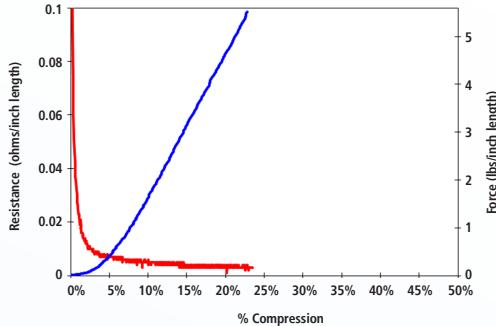
FEATURES

- Fabric-over-Foam gaskets are RoHS compliant
- UL 94HB
- Low surface resistivity of $< 0.07 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of > 100 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 1,000,000 cycles
- Laird Technologies' proprietary coating prevents fabric fraying and fingerprinting
- Available with conductive or non-conductive PSA
- Many cross-section profiles available such as rectangle, D, knife, bell and more
- Profile gaskets can be cut to specified lengths, kiss-cut on release liner, or mitered to form frame configurations

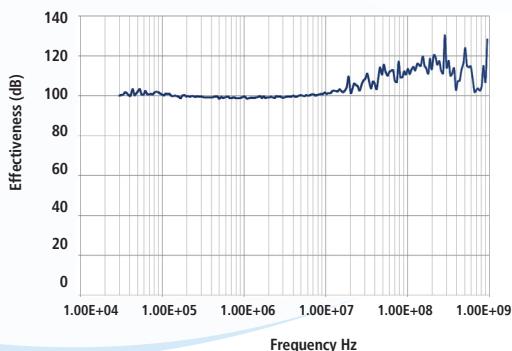
MARKETS

- 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™

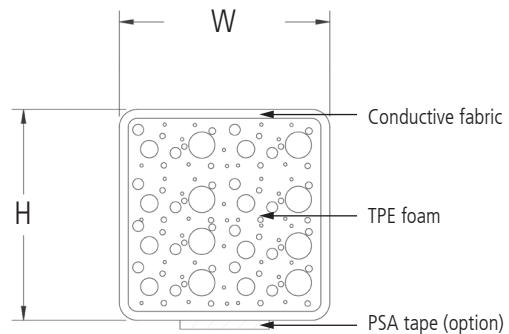
USA: +1.866.928.8181

Europe: +49.0.8031.2460.0

Asia: +86.755.2714.1166

Item	Unit	Value	Test Method
Shielding Effectiveness			
at 100 MHz		108	SAE-ARP-1705(Mod.)
at 1 GHz	dB	110	(W10 mm x H8 mm)
Surface Resistivity	Ω/\square	< 0.07	ASTM F390
Compression Set	%	< 20	ASTM D3574
Operation Temperature	°C	-40 ~ 70	-
Flame Retardant	UL 94HB (UL file No.E170327)		
Hazardous Substance	Compliant with RoHS (Directive 2011/65/EU)		
Antimony-free			
Shelf Life		12 months at 23°C/ 60% R.H.	

COMPOSITION OF PRODUCT



PRESSURE SENSITIVE ADHESIVE (PSA) 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



EMI-DS-FOF-221 0812

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Mouser Electronics

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[Laird Performance Materials](#):

4049PA22101800	4520PA22101800	4096PA22101800	4105AB22102600	4182AP22107400	4202AB22109600
4228AB22100510	4244AB22106900	4295AD22109600	4094PA22101800	4906AE22109600	4053PA22101800
4693PA22101800	4692PA22101800	4056PA22101800	4184PA22101800	4797PA22101800	4742PA22101800
4789PA22101800	4283PA22101800	4694PA22101800	4242PA22101800	4078PA22101800	4522PA22101800
4788PA22101800	4181PA22101800	4202PA22101800	4046PA22101800	4209PA22101800	4502AB22100594
4047AB22109600	4699HA22109600	4212PA22101800	4186PA22101800	4609PA22101800	4696AB22104800
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