



UL 94V0 RATED NI/CU NYLON RIPSTOP (NRS) FABRIC-OVER-FOAM

Laird's EcoTemp[™] 85 X1G EMI gaskets provide excellent EMI shielding performance for customers where EMI issues occur. The gaskets are composed of electrically conductive fabric wrapped around a newly developed urethane foam core which will satisfy the requests for higher temperature resistance and lower compression set. 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 gasket 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 gaskets can be further customized to an application by die-cutting, hole punching, notching, etc.

FEATURES

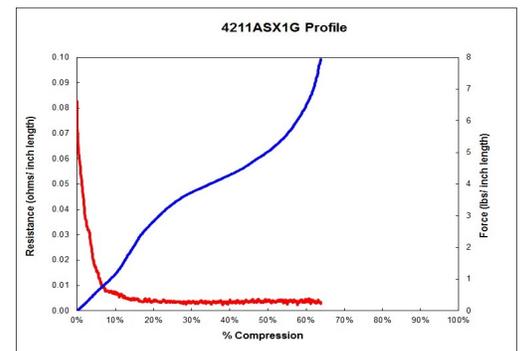
- Fabric-over-Foam gaskets are RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- UL 94V0
- Low surface resistivity of $< 0.07 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of >80 dB across a wide spectrum of frequencies
- Fabric is highly conductive to provide good EMI shielding and grounding
- Abrasion resistant metallized fabrics show virtually no degradation in electrical performance after 1,000,000 cycles
- Laird's proprietary coating prevents fabric fraying and fingerprinting
- 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
- Higher performance with lower compression set values

MARKETS

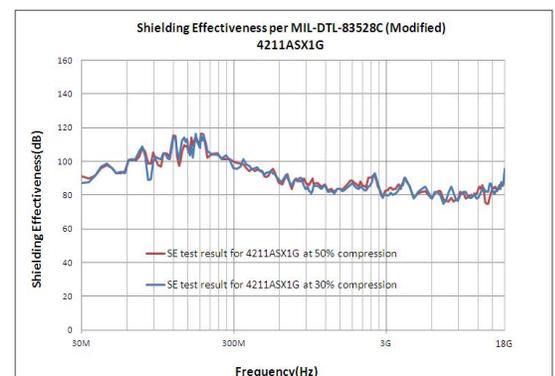
- Cabinet applications
- LCD and Plasma TV
- Medical equipment
- Servers
- Printers
- Laptop computers
- Networking equipment
- Desktop computers
- Telecommunications cabinets



FORCE/DISPLACEMENT/RESISTANCE (FDR)



SHIELDING EFFECTIVENESS (dB)

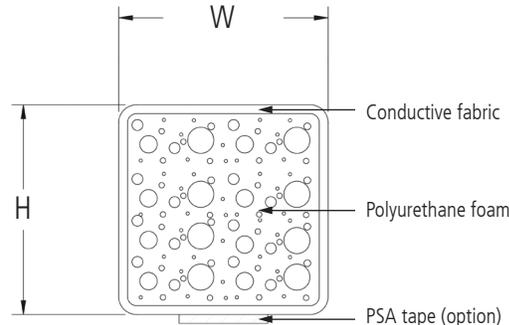


USA: +1.866.928.8181
Europe: +49.0.8031.2460.0
Asia: +86.755.2714.1166

Item	Unit	Value	Test Method
Shielding Effectiveness	dB		MIL-DTL-83528C (Mod.)*
30MHz-300MHz		104	
300MHz-3GHz		89	
3GHz -18GHz		82	
Surface Resistivity	Ω/\square	< 0.07	ASTM F390
Compression Set @ 70°C	%	< 10	ASTM D3574 ^
Compression Set @ 85°C	%	< 15	ASTM D3574 ^
Operation Temperature ^	°C	-40 to 85	-
Flame Retardant	UL 94V0 (UL file No.E170327 designation V0 030)		
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.		

* Part tested 5mm H x 10mm W rectangle ^ Part tested 10mm H x 13mm W rectangle

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 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	X	1	G	0	1	4	0	0
	Profile Shape & Details						Product Name			Part Length				

EMI-DS-FOF-X1G 0114

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