



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

Laird's EcoTemp<sup>TM</sup> 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

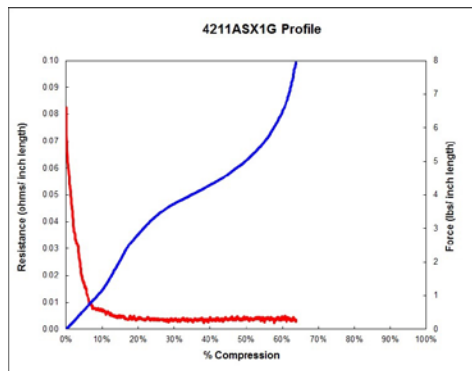
- Fabric-over-Foam gaskets are RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- UL 94V0
- Low surface resistivity of  $< 0.07\Omega/\square$  provides excellent conductivity
- Shielding effectiveness of  $>80$  dB across a wide spectrum of frequencies
- Fabric is highly conductive to provide 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

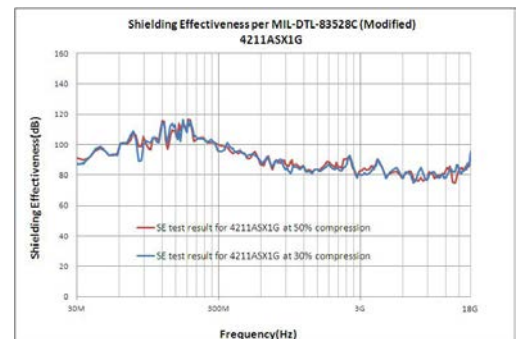


- Cabinet applications
- LCD and Plasma TV
- Medical equipment
- Servers
- Printers
- Laptop computers
- Networking equipment
- Desktop computers
- Telecommunications cabinets

#### FORCE/DISPLACEMENT/RESISTANCE (FDR)



#### SHIELDING EFFECTIVENESS (FDR)



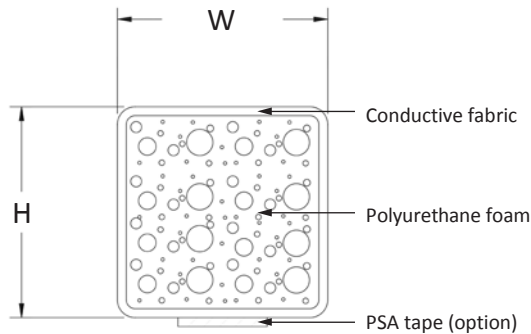
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ITEM	UNIT	VALUE	TEST METHOD
Shielding Effectiveness	dB		MIL-DTL-83528C (Mod.)*
30MHz-300MHz		104	
300MHz-3GHz		89	
3GHz -30GHz		82	
Surface Resistivity	$\Omega/\square$	< 0.07	ASTM F390
Compression Set @ 70°C	%	< 10	ASTM D3574*
Compression Set @ 85°C	%	< 15	ASTM D3574*
Operation Temperature	°C	-40 to 85	-
Flame Retardant	UL 94V0 (UL file No.E170327 designation V0 041)		
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

### 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 $\Omega$
LT-350	PSA	0.12	> 2 kgf/25 mm	-

\*Other PSA can be provided. Contact Laird Engineering.

Values presented have been determined by standard test methods and are typical values not to be used for specification purposes.

### 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 060915

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