Laird
Smart Technology. Delivered.

X1G Gaskets
EcoTemp™ 85
Fabric-over-Foam

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.

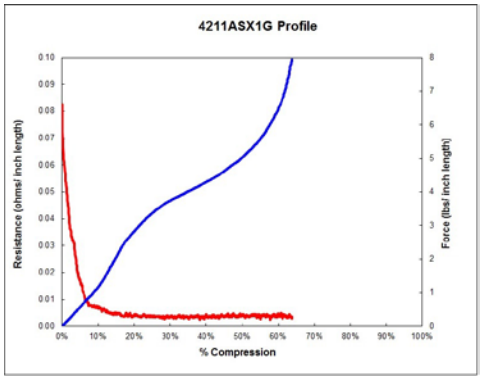
FEATURES

- Fabric-over-Foam gaskets are RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- UL 94V0
- Low surface resistivity of < 0.07Ω/□ 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

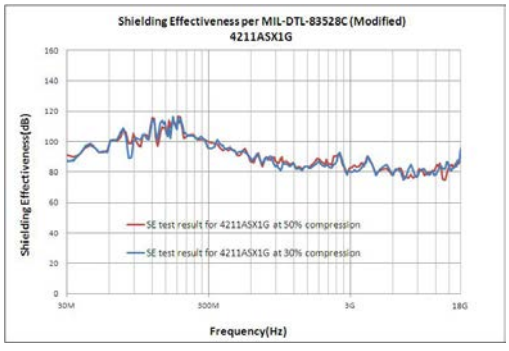
MARKETS

- 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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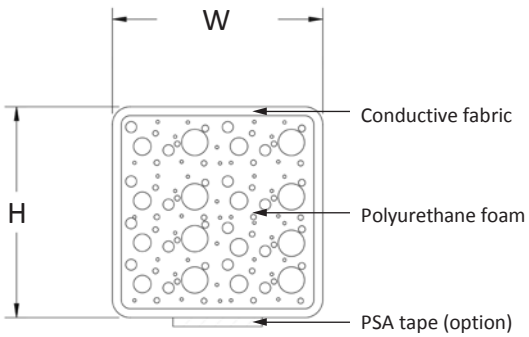
ITEM	UNIT	VALUE	TEST METHOD
Shielding Effectiveness	dB		MIL-DTL-83528C (Mod.)*
30MHz-300MHz		104	
300MHz-3GHz		89	
3GHz -30GHz		82	
Surface Resistivity	Ω/□	< 0.07	ASTM F390
Compression Set @ 70°C	%	< 10	ASTM D3574*
Compression Set @ 85°C	%	< 15	ASTM D3574*
Operation Temperature	°C	-40 to 85	-
Flame Retardant	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 Ω
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				