

**PRODUCT DESCRIPTION (M-LAS1000)**

M-LAS is the trademark of Main Elecom's Aluminums foil. M-LAS 1000 is developed for the use of replacing Nickel plated fabric using EMI Gasket that wraps Polyurethane foam with conductive metalized fabric. M-LAS 1000's first layer is foamed with very thin aluminum foil and its electrical resistance is very low comparing to existing metalized fabric. And the second and the third layers are foamed with very thin PET and paper so that working process efficiency is improved to be similar to existing metalized fabric. Also it has high edge-tear resistance and tensile strength by the second layer, and no phenomenon of burr during die cutting, but normal fabric is not.

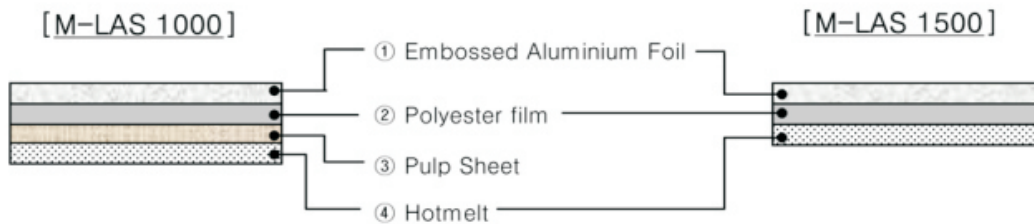


**PRODUCT DESCRIPTION (M-LAS2000)**

The existing Aluminum Foil for shielding pad is foamed with Aluminum in structure. So it has several weak points like its price is high and it becomes wrinkled during production, but M-LAS 2000 and 3000 are the products improving these problems. The first layer is coated with Anti-oxidation which has the inhibition of oxidization, the second layer is the thin Aluminum foil which foams shielding, and the third layer is PET so that it has high edge-tear resistance. These products also has very reasonable price.



■ Construction & Material



ITEM	Material	THICKNESS	REFERENCE
① Conduction Layer	Embossed Aluminum Foil	0.007~0.015mm	-
② Supporter1	Polyester	0.01~0.030mm	-
③ Supporter2	Pulp Sheet	-	20~25g/m <sup>2</sup>
④ Adhesive Layer	Hotmelt	0.015~0.045mm	
Total Thickness		0.120 ± 0.02 mm	

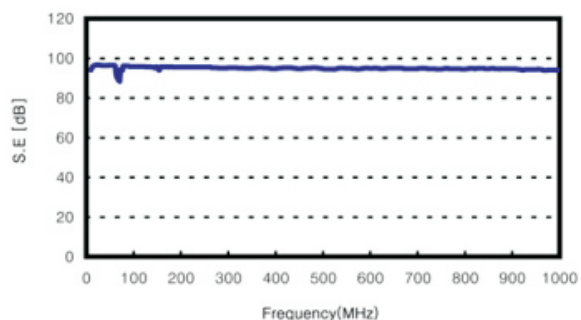
■ Characteristics

Item	Unit	SPEC	Remark
Color	-	Silver Color	
Surface Resistance	Ω/25mm <sup>2</sup>	less than 0.05	MIL-G-83528 Surface Probe
Tensile Strength	Kgf/mm <sup>2</sup>	Min. 2.0	ASTM D412
Heating Temperature	M-LAS 1000	℃	See below Note forming speed : 5m/min.
	M-LAS 1500		
Shielding Effectiveness (30MHz~1000MHz)	dB	80dB~115dB	ASTM D4935

■ Features

- ▶ Low price
- ▶ Very Flexible
- ▶ Excellent shielding effectiveness
- ▶ High edge-tear resistance & tensile strength
- ▶ Meet RoHS requirement

■ Shielding Effectiveness(Typical Value)



■ Standard Packing

- ▶ M-LAS 1000 is available in 800mm~830mm(width) X 100meters(length) in roll.

※ Note

- 1) The forming temperature condition of M-LAS 1000 is from 130℃ to 160℃ according to forming speed.
- 2) The forming temperature condition of M-LAS 1500 is from 100℃ to 110℃ at 5m/min speed.  
(Forming means PUR wrapped with M-LAS 1000.)
- If forming temperature is inadequate, there is not enough for the melt up or Al-foil cracks occur while the foam gasket is passing through a heating path.