



## esorb - MLA series

### Laminated flexible microwave foam absorber

**esorb**- MLA absorbers are a range of broadband microwave absorbers consisting of a multilayer with different graded layers. The stack is designed to obtain a broadband reflectivity level at microwave frequencies of typically better than -17dB of perpendicular incident energy relative to a metal background.

#### Applications :

- Lining of the inside of small test boxes to reduce reflections.
- Installation around antennas systems and inside radomes to reduce crosstalk.
- Improvement of back- and side lobes of antennas.
- Reduction of radar cross section from masts and other metal structures.

#### Specifications :

Type	Thickness (mm)	Weight (Kg)	Reflectivity level (-dB)
<b>esorb</b> - MLA-20	6mm	0,25	-17db > 20 GHz
<b>esorb</b> - MLA-7.5	10mm	0.40	-17dB > 7.5 GHz
<b>esorb</b> - MLA-3.5	19mm	0.70	-17dB > 3.5 GHz
<b>esorb</b> - MLA-2.4	29mm	0.80	-17dB > 2.4 GHz
<b>esorb</b> - MLA-1.2	57mm	1.50	-17dB > 1.2 GHz
<b>esorb</b> - MLA-0.8	114mm	3.00	-17dB > 0.8 GHz

#### Properties :

Front side painted white, backside is unpainted.  
Standard outside dimensions : 610 x 610mm  
Maximum service temperature : +90°C  
Typical power handling : 0.15 W/cm<sup>2</sup>

#### Availability :

Besides standard outside dimensions also specific or customized sizes and shapes can be supplied.  
**esorb**- MLA is not intended for outdoor use as humidity will reduce its RF-performance and lifetime.  
Depending on the application and requirements specific coatings or fabrics can be applied on the foam material to make it resistant for outdoor applications or harsh environments.