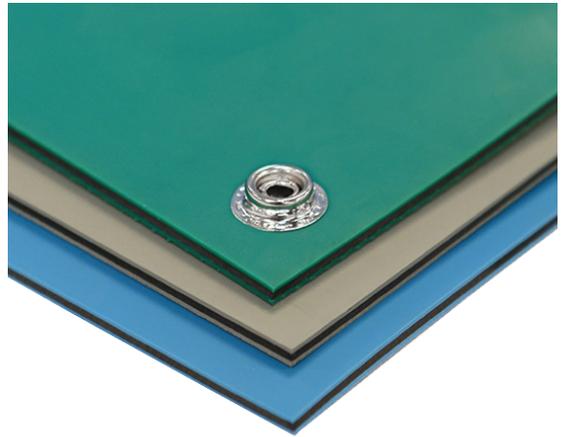


**PRODUCT**

# ESD Bench Matting - 3 Layer - Smooth Finish

Antistatic matting can be laid out in workshops or advanced laboratories for microelectronic industries such as electronic semiconductor devices, electronic computers, electronic communication equipment and integrated circuits etc.



**COLORS**



GREEN



GREY



BLUE

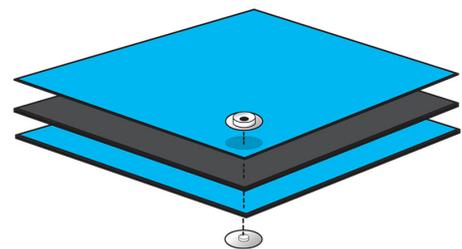
**FEATURES**

- Great value ESD Bench Matting made from antistatic (conductive) and static-dissipative materials with synthetic rubber
- All bench mats come with 10mm studs in each corner

**LAYERS**

- 3 layer structure
- Top and bottom surface layer is a 1.25mm thick static dissipative layer
- Middle layer is a 0.5mm conductive layer

Static Dissipative Layer  
Conductive Layer  
Static Dissipative Layer



To request a quotation or for more information, please call **+44 (0)1473 836200**  
email [sales@antistat.com](mailto:sales@antistat.com) or visit [www.antistat.com](http://www.antistat.com)

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### Grounding

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3, less than  $1 \times 10^9$  ohms for working surfaces. The industry recommendation is that continuous runs of ESD matting should be grounded at 10ft intervals to allow proper charge decay rates. Each individual ESD mat should be grounded with ground snaps located no further than five feet from either end.

### Cleaning

Please note that contact between the matting surface and any acid or alkali solvent is strictly prohibited (such as Benzene, Alcohol etc), this will result in the antistatic performance degrading. If cleaning is required, the matting may be wiped with a cloth coated in a neutral solution (such as water).

### Guidance on use

Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to relax for at least 4 hours before cutting to size. Matting should always be trimmed with a sharp knife or razor blade.

### Cutting tolerances

Width  $\pm 6$ mm

Length  $\pm 6$ mm every linear foot of running material

### RoHS Compliance

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1.

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**TEST RESULTS**

	TEST METHOD	UNIT	VALUE
Surface Resistance / R <sub>TG</sub>	SJ/T10694-2004	Ohms	1x10 <sup>6</sup> ≤ R ≤ 1x10 <sup>9</sup>
Bottom Resistance / R <sub>TT</sub>	SJ/T10694-2004	Ohms	1x10 <sup>3</sup> ≤ R ≤ 1x10 <sup>6</sup>
Volume Resistance	GB/T14437-97	Ohms	1x10 <sup>5</sup> ≤ R ≤ 1x10 <sup>8</sup>
Thickness	YY-1001	mm	Permissible Tolerance +0.1
Temperature Resistance	YY-1001	°F	356 (Instantaneous Temp)
Temperature	N/A	°F	68-78.8
Relative Humidity	N/A	%	40-65

R<sub>TG</sub> is the resistance from one point on the mat's surface to the mat's ground point, and is the fundamental electrical test for a mat. A proper R<sub>TG</sub> insures that a mat can conduct charge from a point on the surface to the mat ground point. The guideline in ESD STM-4.1 for RTG is 1x10<sup>6</sup> to 1x10<sup>9</sup> Ohms. ANSI/ESD S-20.20 has an upper limit of <1 x10<sup>9</sup> Ohms.

R<sub>TT</sub> is the resistance from one point on the mat's surface to another point. A proper R<sub>TT</sub> insures the consistency of the mat's resistance properties. The ESD STM-4.1 guideline for R<sub>TT</sub> is >1x10<sup>6</sup> Ohms.

PRODUCT CODE	DESCRIPTION	SIZE (IN)	COLOUR
082-0319	ESD Bench Matting - 3 Layer - Smooth	23.62 x 47.24	Blue
082-0320	ESD Bench Matting - 3 Layer - Smooth	47.24 x 70.87	Blue
082-0318	ESD Bench Matting - 3 Layer - Smooth	23.62 x 47.24	Grey
082-0321	ESD Bench Matting - 3 Layer - Smooth	47.24 x 70.87	Grey
082-0317	ESD Bench Matting - 3 Layer - Smooth	23.62 x 47.24	Green
082-0312	ESD Bench Matting - 3 Layer - Smooth	47.24" x 139.37ft Roll	Blue

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