

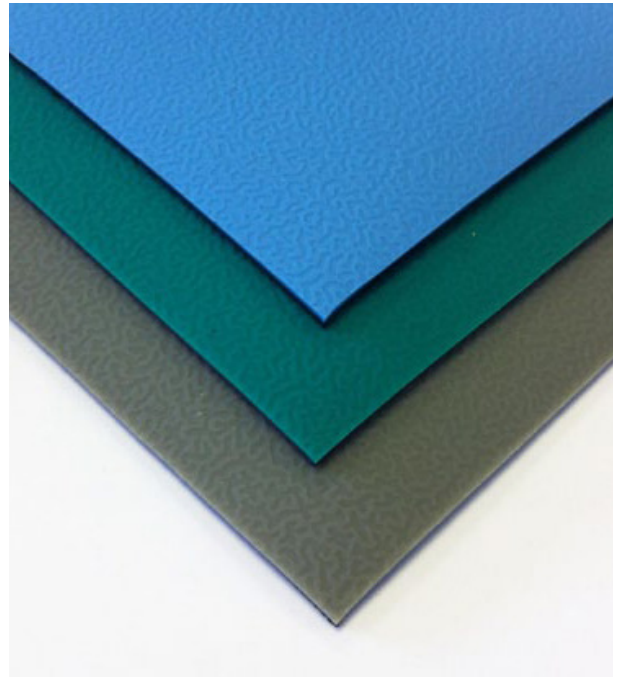
## ESD Bench Matting - Textured Finish

Anti-static matting should be laid out in the workshops or advanced laboratories for microelectronic industries such as electronic semi-conduct devices, electronic computers, electronic communication equipment and integrated circuits etc.

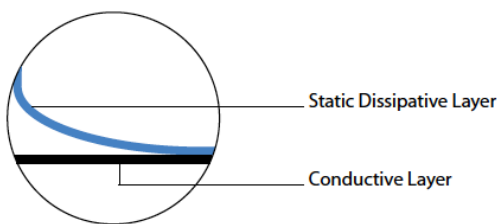
### Features:

- Great value ESD Bench Matting
- Made from anti-static (conductive) and static-dissipative materials with synthetic rubber
- 2mm thick double-layer structure
- Surface layer is a 0.5mm thick static-dissipative layer
- Bottom layer is a 1.5mm conductive layer
- Available in blue or grey
- Asian origin

Image for illustrative purposes only, exact colour may differ slightly from shown.



### Construction



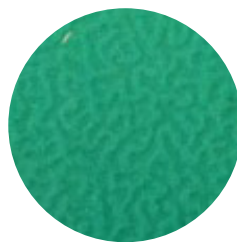
### Colour / Finish



Blue



Grey

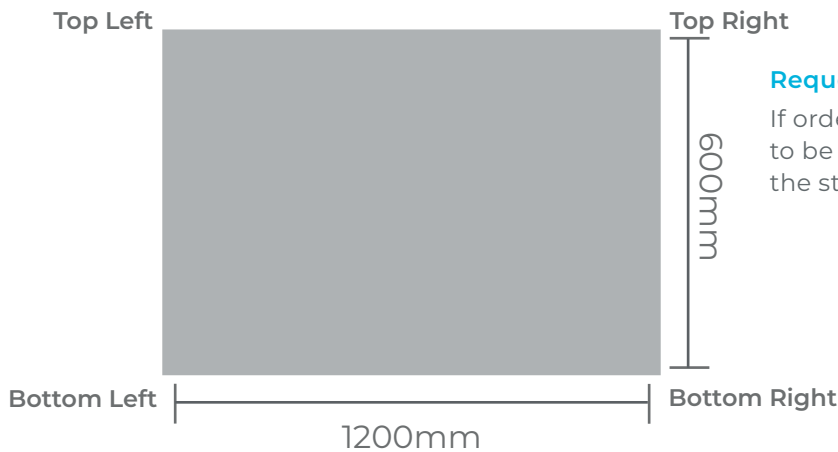


Green

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# ESD Bench Matting - Textured Finish

**Fig. 1: Stud Positioning**



**Requesting Cut Mats with Studs:**

If ordering pre cut mats and you require studs to be added, please ensure that the position of the stud is specified as per Fig 1.

**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. 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 wearing away. 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 tolerance:**

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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## ESD Bench Matting - Textured Finish

### Test Results:

|                               | Test Method    | Unit | Value                                     |
|-------------------------------|----------------|------|---|
| Surface Resistance / $R_{TC}$ | SJ/T10694-2004 | Ohms | $1 \times 10^6 \leq R \leq 1 \times 10^9$ |
| Bottom Resistance / $R_{TT}$  | SJ/T10694-2004 | Ohms | $1 \times 10^3 \leq R \leq 1 \times 10^6$ |
| Volume Resistance             | GB/T14437-97   | Ohms | $1 \times 10^5 \leq R \leq 1 \times 10^8$ |
| Thickness                     | YY-1001        | mm   | Permissible Tolerance +0.1                |
| Temperature Resistance        | YY-1001        | °C   | 180 (Instantaneous Temp)                  |
| Temperature                   | N/A            | °C   | 20-26                                     |
| Relative Humidity             | N/A            | %    | 40-65                                     |

$R_{TC}$  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  $R_{TC}$  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  $1 \times 10^6$  to  $1 \times 10^9$  Ohms. ANSI/ESD S-20.20 has an upper limit of  $<1 \times 10^9$  Ohms.

$R_{TT}$  is the resistance from one point on the mat's surface to another point. A proper  $R_{TT}$  insures the consistency of the mat's resistance properties. The ESD STM-4.1 guideline for  $R_{TT}$  is  $>1 \times 10^6$  Ohms.

| Product Code | Description                         | Size                            | Additional Notes |
|--------------|-------------------------------------|---------------------------------|------------------|
| 082-0313     | ESD Bench Matting - textured finish | 1.2m wide / 10m length per roll | Blue             |
| 082-0314     | ESD Bench Matting - textured finish | 1.2m wide / 10m length per roll | Grey             |
| 082-0316     | ESD Bench Matting - textured finish | 1.2m wide / 10m length per roll | Green            |



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