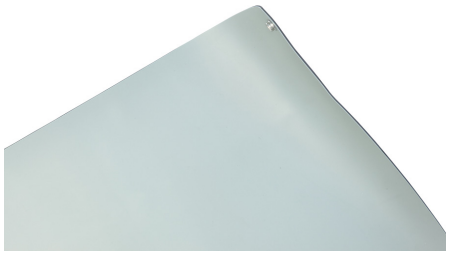
ESD Bench Matting
Smooth, Green

RoHS Compliant



Description

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
- Asian origin
- Blue and Grey colours also available

Grounding

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3 less than $1\times10^{9}\Omega$ 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 Tolerances

Width + 6mm
Length + 6mm every linear foot of running material

Test Results

	Test Method	Unit	Value
Surface Resistance / RTG	SJ/T10694-2004	Ω	$1\times10^{6} \le R \le 1\times10^{9}$
Bottom Resistance / RTT	SJ/T10694-2004	Ω	$1\times10^{3} \le R \le 1\times10^{6}$
Volume Resistance	GB/T14437-97	Ω	$1\times10^{5} \le R \le 1\times10^{8}$
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

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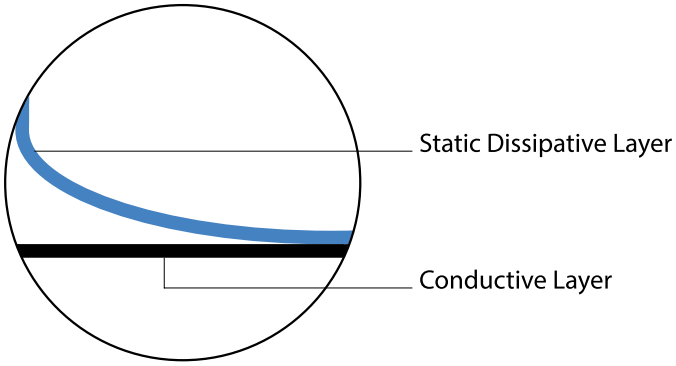
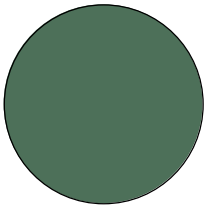
RTG is the resistance from one point on the mat's surface to the mat's ground point, and is the fundamental electrical test for a mat. A proper RTG insures that a mat can conduct charge from a point on the surface to the mat ground point. The guideline in ESD STM-4.1 for RTG is 1×10^6 to $1\times10^9\Omega$. ANSI/ESD S-20.20 has an upper limit of $<1\times10^9\Omega$.

RTT is the resistance from one point on the mat's surface to another point. A proper RTT insures the consistency of the mat's resistance properties. The ESD STM-4.1 guideline for RTT is $>1\times10^6\Omega$.

Construction:



Colours / Finish:



Green

Part Number Table

Description	Mat Size	Part Number
ESD Bench Matting - Smooth Finish with 4 studs to each corner	600mm×1200mm	082-0035F