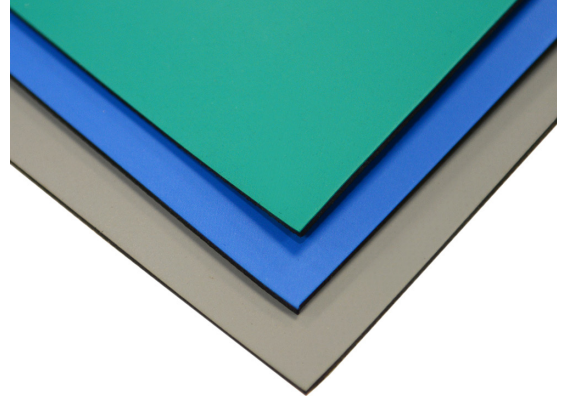


PRODUCT

ESD Bench Matting - 2 Layer - Smooth Finish

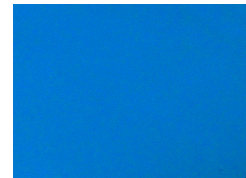
Antistatic matting can be laid out in the workshops or advanced laboratories for microelectronic industries such as electronic semiconductor devices, electronic computers, electronic communication equipment and integrated circuits etc.



COLORS



GREEN



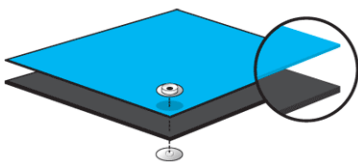
BLUE



GREY

FEATURES

- Great value ESD Bench Matting
- Made from antistatic (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, grey or green
- Available with studs on request



Static Dissipative Layer

Conductive Layer

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2021 Antistat.

Grounding

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3: less than 1×10^9 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 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 6mm
- Length \pm 6mm 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.

Material

Top layer dissipative:

- Nitrile - Butadiene rubber
- Antistatic agent

Bottom layer conductive:

- Perbunan
- Super conductive carbon black
- Antioxidant
- Zinc oxide

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2021 Antistat.

TEST RESULTS

	TEST METHOD	UNIT	VALUE
Surface Resistance / R _{TG}	SJ/T10694-2004	Ohms	1x10 ⁶ ≤ R ≤ 1x10 ⁹
Bottom Resistance / R _{TT}	SJ/T10694-2004	Ohms	1x10 ³ ≤ R ≤ 1x10 ⁶
Volume Resistance	GB/T14437-97	Ohms	1x10 ⁵ ≤ R ≤ 1x10 ⁸
Thickness	YY-1001	mm	Permissible Tolerance +0.1
Temperature Resistance	YY-1001	°F	356 (Instantaneous Temp)
Temperature	N/A	°F	68-79
Relative Humidity	N/A	%	40-65

R_{TG} 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_{TG} 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 1x10⁶ to 1x10⁹ Ohms. ANSI/ESD S-20.20 has an upper limit of <1 x10⁹ 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 >1x10⁶ Ohms.

PRODUCT CODE	DESCRIPTION	SIZE (IMPERIAL)	COLOR
082-0044	ESD Bench Matting - 2 Layer, Smooth Finish	3.9ft x 32.8ft (roll)	Blue
082-0070	ESD Bench Matting - 2 Layer, Smooth Finish	23.6" x 3.9ft	Blue
082-0056	ESD Bench Matting - 2 Layer, Smooth Finish	3.9ft x 32.8ft (roll)	Green
082-0072	ESD Bench Matting - 2 Layer, Smooth Finish	23.6" x 32.8ft	Green
082-0043	ESD Bench Matting - 2 Layer, Smooth Finish	3.9ft x 32.8ft (roll)	Grey
082-0074	ESD Bench Matting - 2 Layer, Smooth Finish	23.6" x 32.8ft	Grey

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2021 Antistat.