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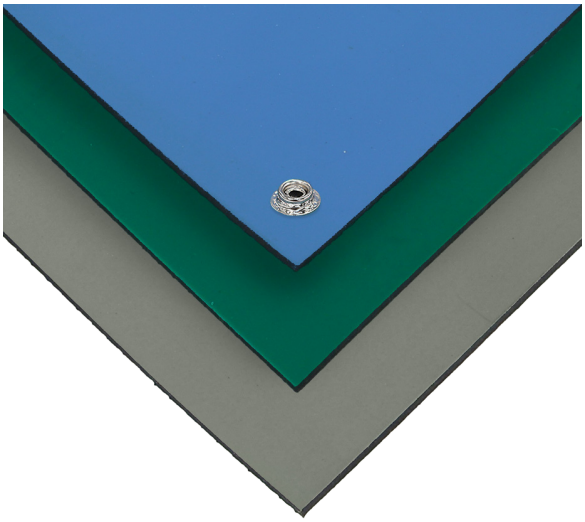
ESD & PRODUCTION CONSUMABLES



PRODUCT

Smooth Antistatic Matting - 2 Layer

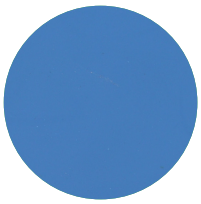
TECHNICAL DATASHEET

DESCRIPTION

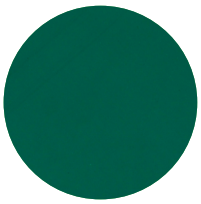
This 2 layer antistatic matting can be laid out in workshops or laboratories to provide a safe environment for handling ESD sensitive devices.

COLOURS

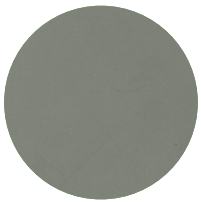
Blue



Green



Grey



FEATURES

- Great value ESD Bench Matting
- Made from antistatic (conductive) and static-dissipative materials with synthetic rubber
- One year shelf life
- 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
- Pre-cut matting supplied with 4 x 10mm studs in each corner

PRODUCT CODE	DESCRIPTION	SIZE (METRIC)	SIZE (IMPERIAL)	COLOUR	NOTES
082-0016	ESD Bench Matting - 2 Layer, Smooth Finish	600mm x 1.2m	23.6in x 3.9ft	Blue	Pre-Cut
082-0072	ESD Bench Matting - 2 Layer, Smooth Finish	600mm x 1.2m	23.6in x 3.9ft	Green	Pre-Cut
082-0071	ESD Bench Matting - 2 Layer, Smooth Finish	600mm x 1.2m	23.6in x 3.9ft	Grey	Pre-Cut
082-0044	ESD Bench Matting - 2 Layer, Smooth Finish	1.2m x 10m	3.9ft x 32.8ft	Blue	Roll
082-0056	ESD Bench Matting - 2 Layer, Smooth Finish	1.2m x 10m	3.9ft x 32.8ft	Green	Roll
082-0043	ESD Bench Matting - 2 Layer, Smooth Finish	1.2m x 10m	3.9ft x 32.8ft	Grey	Roll

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

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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.

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

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.

CLEANING

Contacting the matting surface with the Acid and Alkali solvent is strictly prohibited, (such as Benzene, Alcohol etc). Doing so might result in the Matting antistatic performance wearing away. If you do need to clean the mat, use a cloth coated with a neutral solution (such as water, etc.).

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SPECIFICATIONS

CHARACTERISTIC	STANDARD	RESULTS
Thickness	-	2mm thick
Colour	-	Blue, Grey, Green
Surface	-	Smooth
Structure	-	2 layer composite structure
Surface Resistance	IEC 61340-4-1	$1x10^7\Omega$—$1x10^9\Omega$
	EN 1000015-1	$1x10^6\Omega$—$1x10^8\Omega$
	EOS/ESD S11-11	$1x10^7\Omega$—$1x10^8\Omega$
Volume Resistance	IEC 61340-4-1	$1x10^6\Omega$—$1x10^8\Omega$
Resistance to Ground	EN 100015-1	$1x10^6\Omega$—$1x10^8\Omega$
	EOS/ESD S11-11	$1x10^6\Omega$—$1x10^8\Omega$
	IEC 61340-4-1	$5x10^6\Omega$—$5x10^7\Omega$
Charge Decay	FED TM 101C (5000V-50V)	≤0.01sec
Material	-	Conductive rubber, static dissipative rubber
Tester	-	ETS 406C Static Decay Meter, 3M Model 701 Test Kit for Static Control Surfaces
Hardness (ISO 7619)	ISO 7619	70±5 shore A
Abrasion Resistance (ISO 4649, method A)	ISO 4649, method A	≤200mm3
Indentation (EN433)	EN433	≤0,20mm
Cigarette burning resistance (EN1399)	EN1399	No burn
Chemical resistance (EN423)	EN423	Resistant to chemical agents normally used for maintenance
Dimensional Stability (EN424 - 6h/80°C)	EN424 - 6h/80°C	≤0.4%
Surface Resistance Top Layer (EN 100015.1-IEC61340)	En 100015.1-IEc61340	$10^7\Omega$—$10^9\Omega$
Surface Resistance Bottom Layer (EN 100015.1-IEC61340)	En 100015.1-IEc61340	$10^3\Omega$—$10^5\Omega$

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