

Premium Textured ESD Bench Matting

KSMLF

Description

Premium Textured ESD Bench Matting is a highly durable work surface for an ESD sensitive environment. The matting provides excellent static dissipation to ground when connected to Earth via a grounding system. The surface is scratch-resistant, protecting the surface of static sensitive components during production. The matting is made from a durable synthetic rubber material with a textured finish. The matting can be loosely-laid at a workstation without the need for any adhesives. It has two layers: a static-dissipative top layer with a conductive backing. The matting is resistant to abrasion, heat and solder splash. The material doesn't melt if in contact with hot metal parts or soldering debris; cheaper PVC based rubber mats are not solder proof. The black conductive layer provides a superior and consistent ground path. Available in rolls or cut-size mats.

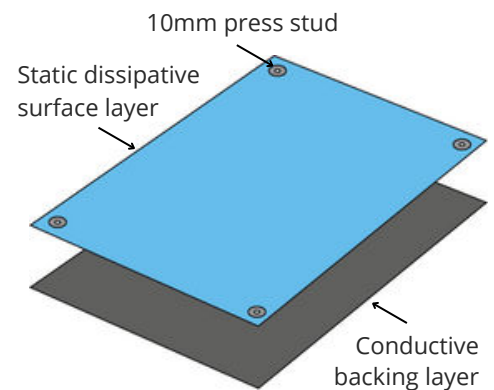
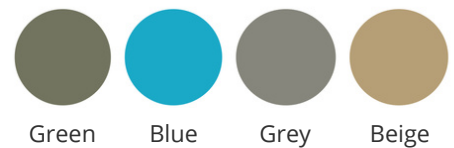


The images are shown for illustration only, the colour may differ slightly to the image shown.







Key Features

- Material: Synthetic rubber with textured finish
- Thickness: 0.076 (2.00mm)
- Construction: Static-dissipative surface, conductive backing
- Scratch-resistant to prevent the sliding of components
- Resistance to heat and UV
- Resistant to solder splash / hot paste and abrasion
- No curling, no pin-holes, and no irritant odour
- Stud force: 6KG/ 59cm (Recommended)
- Easy to clean with an ESD mat and table cleaner
- Can be loose-laid at the workbench (no adhesives required)
- All matting can be cut and studded to suit all requirements

Colour Options
(May vary between batches)



ESD Standards & Regulations Met:

 RoHS compliant	 BS IEC 61340-5-1
 REACH compliant	 US ESD Associations ANSI S4.1 and S20.20 guidelines
 European Conformity	 EN61340-5-1



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Product Code	Size
Thickness	0.076 (2.00mm)
Hardness - Upper Dissipative Layer	70 -5 + 5 shore A (Per ASTM D2240)
Hardness - Lower Conductive Layer	75 -5 + 5 shore A (Per ASTM D2240)
Scratch Resistance	No clear scratch and well recovery
UV Resistance	No major disc.
Stud Force	6KG/ 59cm (Recommended)
Surface Resistance Point-to-Point	<10 ⁹
Surface Resistance Resistance-to-Ground	10 ⁶ – 10 ⁸
Heat Resistance	Resist holds irons and hot paste, rubber doesn't melt if in contact with hot metal parts and soldering debris.
Charge Decay	< 0.1 sec per FTMS 101C, M4046, TB-WINT-0008
Charge Generation	< 100 volts per ANSI/ ESD STM4.2
Room Temperature	21°C
Humidity	62%
300% Tensile Strength	Top Layer: 3.7Mpa Bottom Layer: 3.7Mpa
Breaking Strength	Top Layer: 18.7Mpa Bottom Layer: 3.7Mpa
Elongation at Break	Top Layer: 690Mpa Bottom Layer: 250Mpa
Hardness	Top Layer: 66° Bottom Layer: 80°

Cleaning Directions

For optimum electrical performance, the matting should be cleaned on a regular basis with an ESD safe cleaner. We suggest using our Staticide mat and table top cleaner for best results. IPA wipes, normal cleaners, Dettol or general anti-bacterial products are **NOT RECOMMENDED**.



Premium Textured ESD Bench Matting

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Product Code	Description	Colour
KSMLF32B	ESD Bench Material 0.6 x 0.9m	Blue
KSMLF32G	ESD Bench Material 0.6 x 0.9m	Grey
KSMLF2B	ESD Bench Material 0.6 x 10m	Blue
KSMLF2G	ESD Bench Material 0.6 x 10m	Grey
KSMLF2BEI	ESD Bench Material 0.6 x 10m	Beige
KSMLF42B	ESD Bench Material 1.2 x 0.6m	Blue
KSMLF42G	ESD Bench Material 1.2 x 0.6m	Grey
KSMLF42BEI	ESD Bench Material 1.2 x 0.6m	Beige
KSMLF4B	ESD Bench Material 1.2 x 10m	Blue
KSMLF4G	ESD Bench Material 1.2 x 10m	Grey
KSMLF4BEI	ESD Bench Material 1.2 x 10m	Beige
KSMLF4GR	ESD Bench Material 1.2 x 10m	Green

Custom Sizes and Studding

All matting can be cut and studded to suit any requirement on request. Please note, all bespoke cut mat sizes will have a +/-10% manufacturing tolerance dependent on size. We can customise the stud position of the matting with the following options:

SP1	SP2	SP3	SP4	SP5
SP6	SP7	SP8	SP9	SP10 (No Studs)



Eliminate Costly Static Damage...

Whether you are experiencing unacceptable levels of damage in transit, need a specific cleanroom solution or simply don't know which ESD safe equipment is best for you, we can help!

Request complimentary,
no obligation advice by
speaking with one of
our technical experts
today.

