



ESD Premium Textured Bench Matting

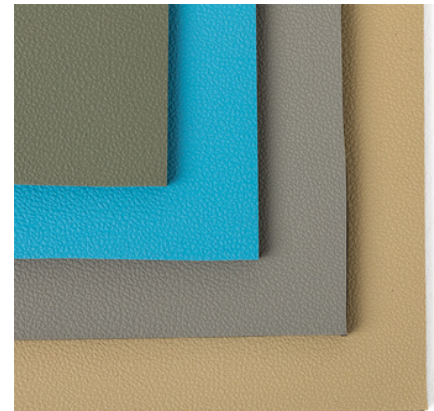
KSMLF

Description

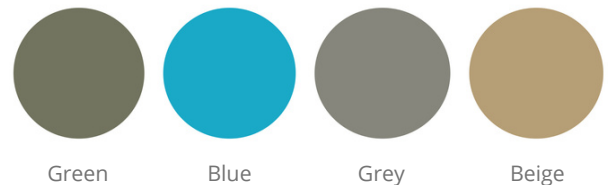
Our great value, protective bench mat is designed to drain static charge from items placed on its surface. This anti static mat is ideal for laying on workbenches in the workshops or laboratories of microelectronic industries. It provides excellent ESD protection for operators working with static-sensitive components in an EPA. The 2-layer bench matting is 2mm thick. Manufactured from a synthetic rubber. The KSMLF matting range's top layer is static-dissipative with a conductive backing giving a typical resistance to ground = 10^6 - 10^8 ohms. The surface resistance point-to-point is $<10^9$. The smooth surface allows easy cleaning and maintenance. The textured finish adds extra operator comfort.

Features

- Synthetic rubber material thickness - 0.076 (2.00mm).
- The surface resistance point-to-point is $<10^9$.
- The surface is scratch-resistant so it prevents sliding of components - No clear scratch and well recovery.
- Heat resistance - Resist holds irons and hot paste, rubber doesn't melt if in contact with hot metal parts and soldering debris.
- Resistant to solder splash / hot paste and abrasion. The material doesn't melt if in contact with hot metal parts or soldering debris. (Cheaper PVC based rubber mats are not solder proof.)
- UV resistance - No major disc.
- No curling, no pin-holes, and no irritant odor.
- Stud force: 6KG/ 59cm (Recommended).
- Very easy to clean with Staticide Mat and Table Top Cleaner.
- The top layer is static-dissipative with a conductive backing giving a typical resistance to ground = 10^6 – 10^8 .
- Can be loose-laid at the workbench. No adhesives required.
- Conforms to BS IEC 61340-5-1.
- Fully RoHs Compliant meeting requirements of EN61340-5-1, US ESD Associations ANSI S4.1 and S20.20 guidelines.



Colour Options
(May vary between batches)



Cleaning

For optimum electrical performance, surface must be cleaned regularly using an ESD safe mat cleaner. We suggest using a Staticide surface cleaner for best cleaning results.

Standards

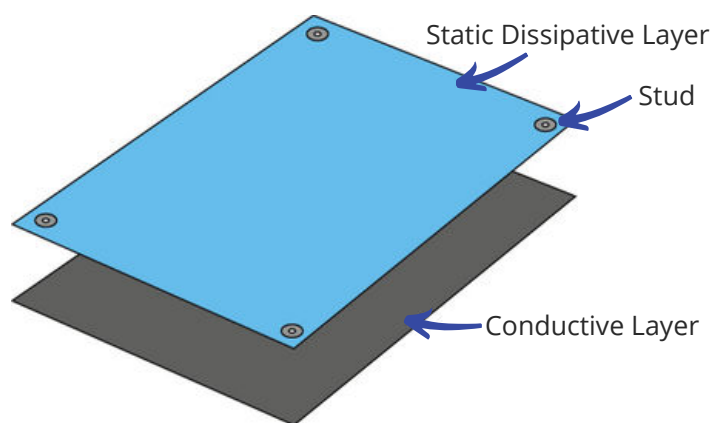
This meets the requirements of US ESD Associations ANSI 20.20 and ANI IEC 61340-5 guidelines.





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Construction

Two layer, static dissipative top surface, black conductive bottom layer.

Standard Roll Sizes

- 10m x 1.2m
- 10m x 0.60m

Physical Properties

Typical Values

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)
Heat Resistance	Resist holds irons and hot paste, rubber doesn't melt if in contact with hot metal parts and soldering debris.

Electrical Properties

Typical Values

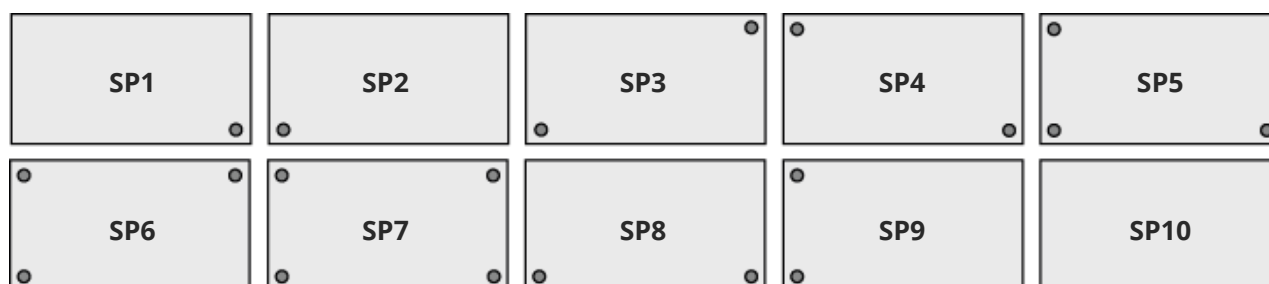
Charge Decay	< 0.1 sec per FTMS 101C, M4046, TB-WINT-0008
Charge Generation	< 100 volts per ANSI/ ESD STM4.2



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Stud Position



Standard Product	Description	Colour
KSMLF4B	ESD Bench Material 1.2 x10m	Blue
KSMLF4G	ESD Bench Material 1.2 x10m	Grey
KSMLF4BEI	ESD Bench Material 1.2 x10m	Beige
KSMLF4GR	ESD Bench Material 1.2 x10m	Green
KSMLF2B	ESD Bench Material 0.6 x10m	Blue
KSMLF2G	ESD Bench Material 0.6 x10m	Grey
KSMLF2BEI	ESD Bench Material 0.6 x10m	Beige
KSMLF2GR	ESD Bench Material 0.6 x10m	Green
KSMLF42B	ESD Bench Mat 1.2 x 0.6m	Blue
KSMLF42G	ESD Bench Mat 1.2 x 0.6m	Grey

Mechanical Properties	Typical Values
Room Temperature	21°C
Humidity	62%





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Property	Top Layer	Bottom Layer
300% tensile strength	3.7Mpa	3.7Mpa
Breaking strength	18.7Mpa	3.7Mpa
Elongation at break	690Mpa	250Mpa
Hardness	66°	80°

Customised Matting Process

We provide a premium service of bespoke custom sizing and studding for our bench matting to suit all customer requirements. If you would like bespoke customisation, please enquire us.



Matting Stock

Our matting is currently stocked in our warehouse and is safely stored. Our matting is stocked on a regular basis to ensure we can support our customer's needs.



Important Notice: The information contained within this spec sheet is for guidance only. We make no warranties expressed or implied and assume no liability regarding any use of this information. Premium Bench Matting, December 7th 2020.