

Conductive Textured Black Matting

KSMLFBC

Description

Fully conductive textured black matting is made from a durable, synthetic rubber for safe use in static controlled areas. It has a single conductive layer giving a typical resistance to ground of $<10^5$, providing a superior and consistent path to Earth. The matting is 2mm thick and can be easily cleaned with Staticide Mat and Table Cleaner. The matting is scratch resistant and has excellent heat and UV resistance. The bench matting can be loosely-laid at a workstation without the need for any adhesives. Available to order in sizes 1.2 x 10m or 0.6 x 10m.



**Black colour
with a textured
surface finish**

Key Features

- Thickness: 0.076 (2.00mm)
- Material: Synthetic rubber
- Colour: Black
- Finish: Textured
- Single conductive layer
- Halogen-free
- Typical resistance to ground: $<10^5$
- Scratch resistant: No clear scratch and well recovery
- Heat resistant: Resist holds irons and hot paste
- UV resistance: No major disc.
- 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 customer requirements
- Compliant to IEC 61340-5-1; RoHS; REACH; CE

Product Code	Size
KSMLFBC2	0.6 x 10m
KSMLFBC4	1.2 x 10m

Meets the Following ESD Standards & Regulations:



RoHS compliant



REACH compliant



CE approved



IEC 61340-5-1



ANSI 20.20

All matting can be cut and studded to suit all customer requirements

All bespoke cut mat sizes will have a +/-10% manufacturing tolerance dependent on size.

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Cleaning Directions

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



Physical Properties	Typical Values	
Density	1,4 ± 1,02 g/cm ³	DIN53479
Abrasion (5N load)	130mm ³	DIN 53516
Hardness	80 Shore A	DIN53505
Impression Test	0,1 mm	DIN51955
Thickness	0.076 (2.00mm)	
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
Point To Point Resistance (Rp)	< 10 ⁵
Resistance To Groundable Point (RG)	< 10 ⁵
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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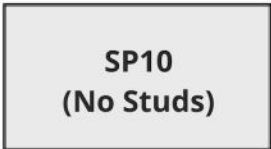
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Mechanical Properties	Typical Values
Room Temperature	21°C
Humidity	62%

Property	Conductive Layer
300% Tensile Strength	3.7Mpa
Breaking Strength	3.7Mpa
Elongation At Break	250Mpa
Hardness	80°

Stud Position

Please get in touch with us if you would like your mat to be studded. We can customise the stud position of the matting with the following options:



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.

