

Specification for Textured ESD Bench Material

Part-KSMLF4 / KSMLF2 (cut sizes)

Description:

2 layer static dissipative rubber mat, high durable work surface for ESD sensitive environment. The dissipative top layer is resistant to abrasion, heat, solders flux and most commonly used solvents. The black conductive bottom layer provides a superior and consistent ground path. This meets the requirements of US ESD Associations ANSI S4.1 and S20.20 guidelines. The smooth texture can be easily cleaned and maintained. The product is also certified for ROHS regulations. Very scratch resistant and it prevents sliding of components.

General Specifications:

Material- synthetic rubber

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

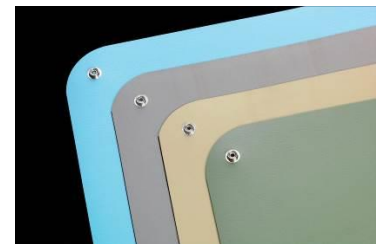
Thickness: 0.076 (2.00mm)

Colour – Grey, blue, green, beige (this may vary between batches)

Hardness: Per ASTM D2240

Upper dissipative layer – 70 -5 + 5 shore A

Lower conductive layer – 75 -5 + 5 shore A



Colour finish

Scratch resistance: 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.

UV resistance: No major disc

Charge Decay: < 0.1 sec per FTMS 101C, M4046

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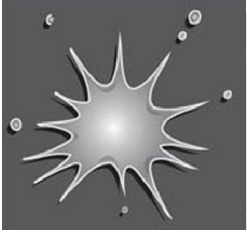
Charge generation: < 100 volts per ANSI/ ESD STM4.2

Others: No curling, No pin holes, No irritant odor

Sizes: Standard roll sizes are 10m x 1.2m and 10m x 0.60.

Stud force: 6KG/ 59cm (Recommended)

Cleaning: For optimum electrical performance surface must be cleaned regularly using an ESD safe mat cleaner. We suggest using Killstat surface cleaner for best cleaning results.

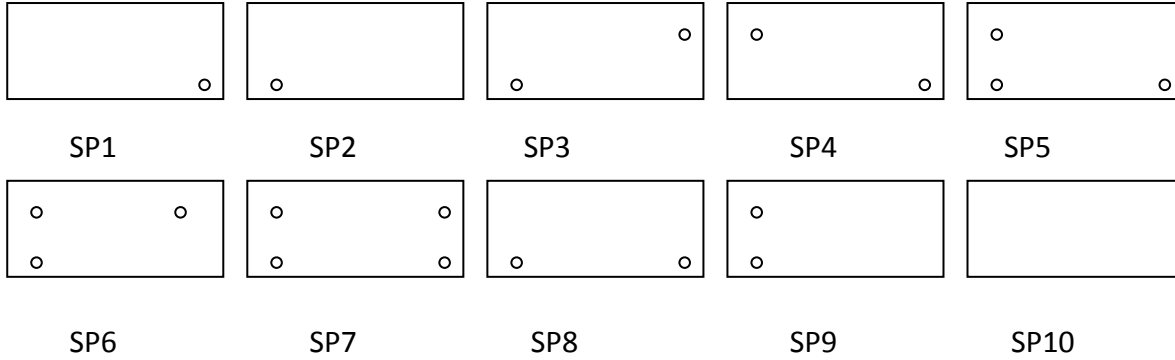


SOLDER CONNECTION

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Stud Position

PG2



Mechanical Properties:

Room temperature: 21°C

Humidity: 62%

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

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

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