

# BONDLINE



## Textured Easy Clean ESD Bench Material

KSMEC



Colour Options  
(May vary between batches)



Grey



Blue



### Description

Two 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. The smooth texture can be easily cleaned and maintained. Very scratch resistant and it prevents sliding of components.

### Features

- Material - Synthetic rubber.
- Thickness - 0.076 (2.00mm).
- Heat Resistance.
- Scratch Resistance.
- UV Resistance.
- Two Layers.
- Smooth texture - Allows easy cleaning and maintenance.

### Standards

This meets the requirements of US ESD Associations S20.20 guidelines. The product is also certified for ROHS regulations. IEC 61340-5.

### 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.

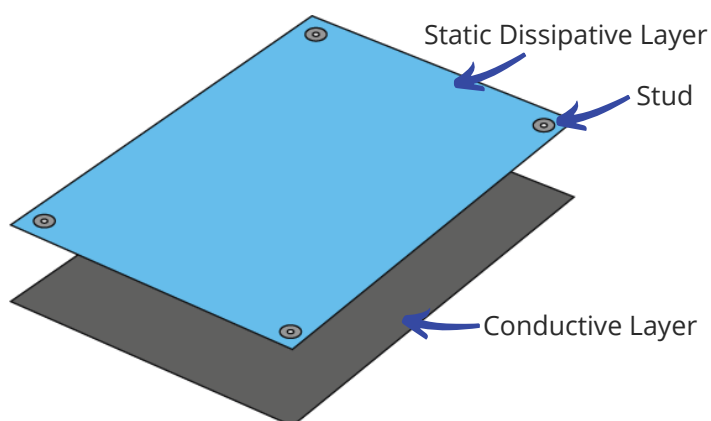


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### Construction

Two layer:

- Static dissipative top surface - resistant to abrasion, heat, solders flux and most commonly used solvents.
- Black conductive bottom layer - provides a superior and consistent ground path.

### Standard Roll Sizes

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

### Physical Properties

### Typical Values

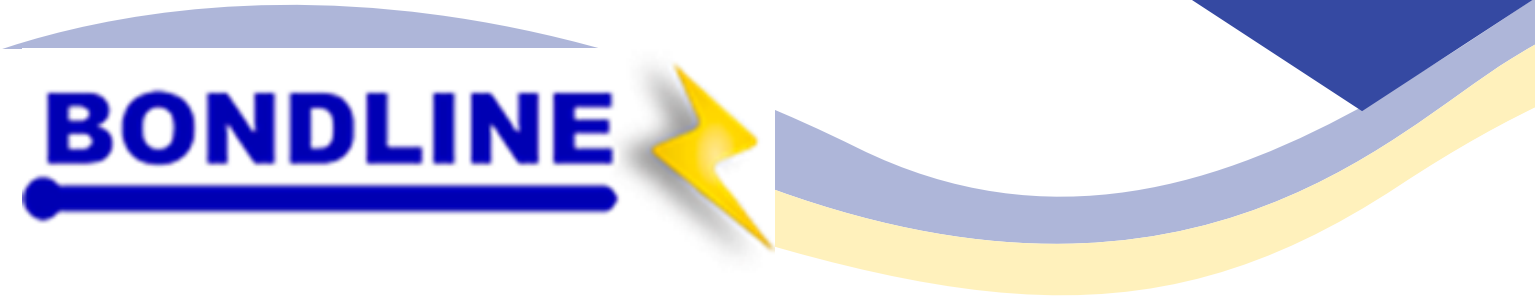
Thickness	0.076 (2.00mm)
Hardness - Upper Dissipative Layer	70 -5 + 5 shore A (Per ASTM D2240)
Hardness - Lower Conductive Layer	75 -5 + 5 shore A (Per ASTM D2240)
Scratch Resistance	No clear scratch and well recovery.
UV Resistance	No major disc
Stud Force	6KG/ 59cm (Recommended)
Heat Resistance	Resist holds irons and hot paste, rubber doesn't melt if in contact with hot metal parts and soldering debris.
Others	No curling, no pin holes, no irritant odor.

### 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

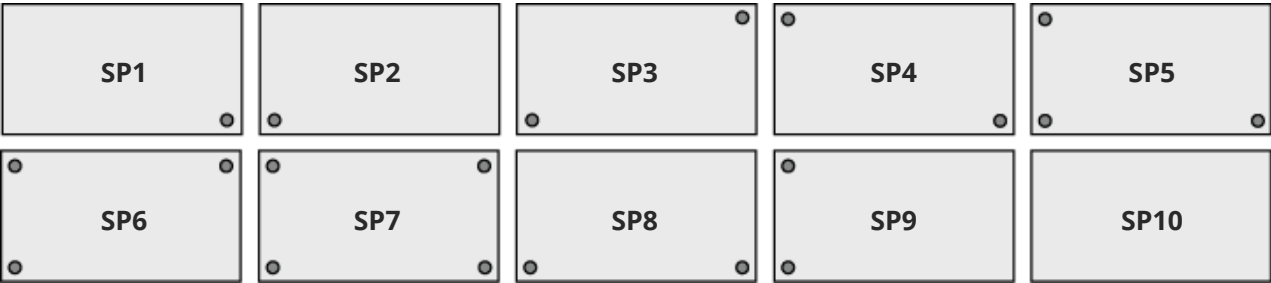




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## Stud Position



Item	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°

Mechanical Properties	Typical Values
Room Temperature	21°C
Humidity	62%    + B - WINT - 0008

Standard Product	Description	Colour
KSMEC4B	ESD Bench Material 1.2 x 10m	Blue
KSMEC4G	ESD Bench Material 1.2 x 10m	Grey

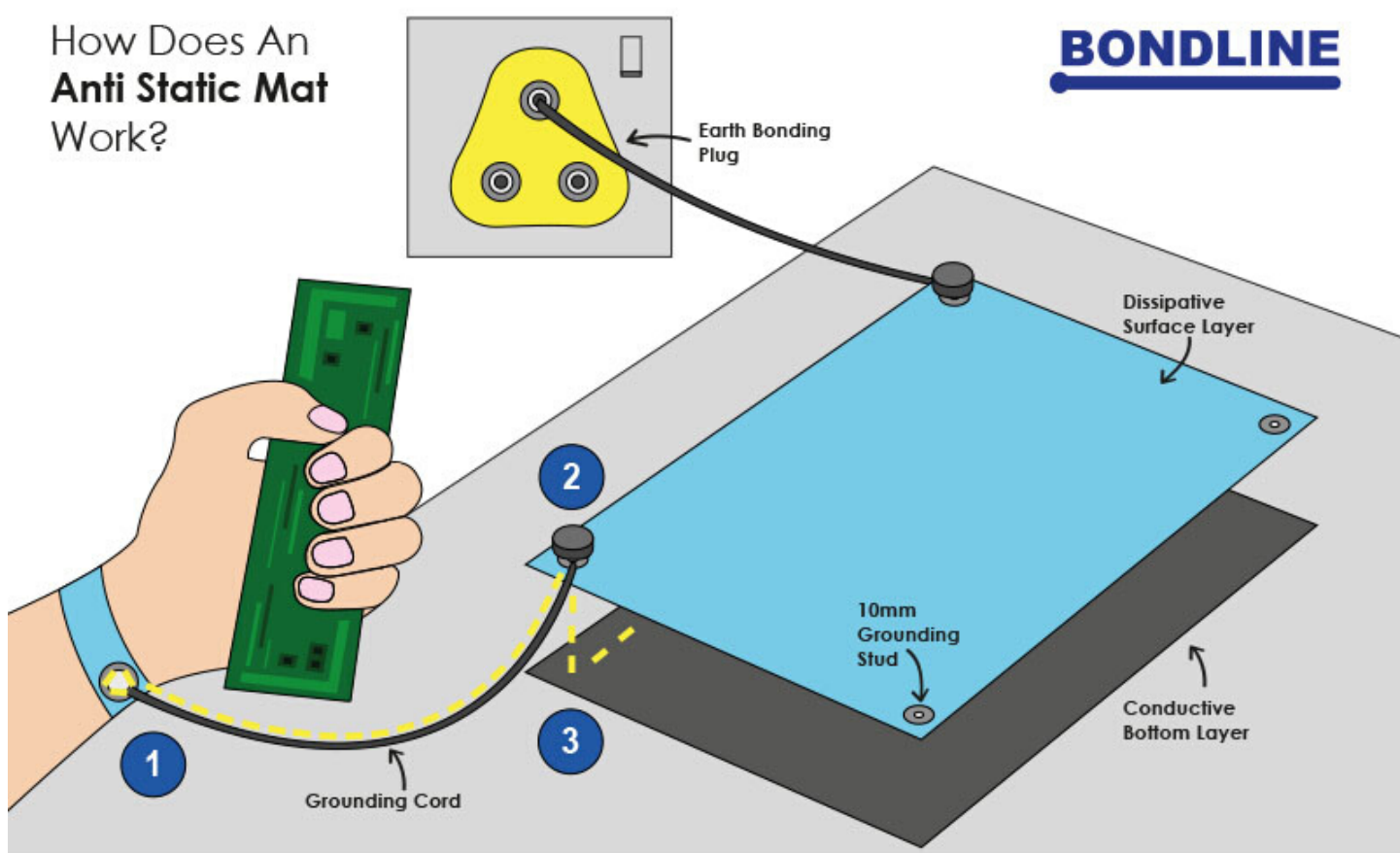




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How Does An  
Anti Static Mat  
Work?



- 1 Operator is grounded as charge passes through the wrist strap into the coil cord.
- 2 Coil cord is connected to the 10mm grounding stud.
- 3 The static charge passes through the mat, through the grounding lead to earth.



*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. Textured Easy Clean ESD Bench Material, January 8th 2020.*

