

KSMBK

Description

This 2-layer black shelving material is manufactured for use in storage areas. It is designed to provide excellent protection against harmful static charges. The material is 2mm thick and is available in various sizes. It has a staticdissipative surface with a conductive backing, giving a typical resistance to ground of 10^6 – 10^7 ohms. 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. The product is also certified for ROHS and REACH regulations. Additionally, the product complies with EN 61340-5-1 and ANSI 20.20 standards.



Features

- Rugged synthetic rubber material.
- Colour: Black with a textured finish.
- Thickness 0.076 (2.00mm).
- UV resistance No major disc.
- No curling, no pin-holes, and no irritant odor.
- Halogen-free.
- Stud force: 6KG/ 59cm (Recommended).
- Scratch resistant 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.
- Complies with EN 61340-5-1 and ANSI 20.20 standards.
- ROHS and REACH compliant.

Cleaning

For optimum electrical performance, the surface must be cleaned regularly using an ESD safe mat cleaner. We suggest using a Staticide surface cleaner for best cleaning results. This will maintain the original resistivity of the antistatic mat whilst extending its shelf-life.

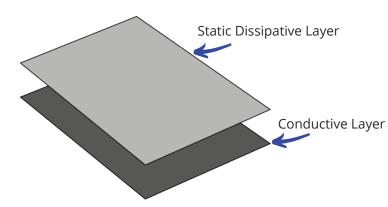
Standards

This meets the requirements of EN 61340-5-1 and ANSI 20.20 standards.





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Construction

The product is made up of two layers; the top layer has a static dissipative surface and the bottom layer has a conductive backing.

available.

Standard Roll Sizes

- 0.4m x 10m long
- 0.6m x 10m long Custom size requests
- 1.2m x 10m long
- 4ft x 2ft long

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 & Requirements	
Point to point resistance Rp	10^6 – 10^7 Ω 1 x 10^4 ≤ Rp ≤ 1 x 10^10 Ω EN 61340-5-1	
Resistance to groundable point RG	10^6 – 10^7 Ω 7,5 x 10^5 ≤ RG ≤ 1 x 10^9 Ω EN 61340-5-1	
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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Mechanical Properties	Typical Values		
Room Temperature	21°C		
Humidity	62%		

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

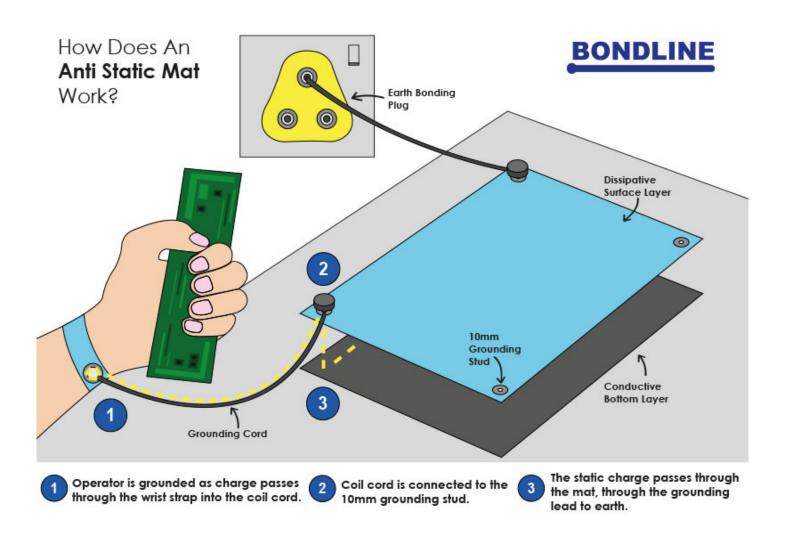
Stud Position

SP1	SP2	• SP3 •	ہ SP4 ہ	• SP5 • •
o o SP6	• • SP7	SP8	o SP9	SP10
•	0 0	• •	•	





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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 make an enquiry to 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 customers' 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. ESD Black Two Layer Shelving Material, March 25th 2021.