

# ESD Bench Matting

## Textured Finish - Beige

**multicomp** PRO

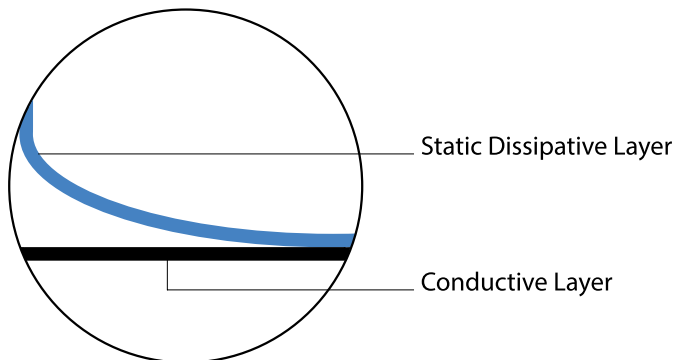
**RoHS  
Compliant**

### Features

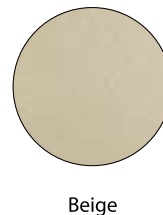
- High quality ESD bench matting
- Reflection breaking surface to reduce glare and improve operator comfort
- Protection against small collisions thanks to natural resilience of rubber
- Prevents sliding of delicate components thanks to excellent friction coefficient
- Heat resistant: rubber does not melt or burn coming into contact with hot metal parts or soldering debris
- Resistant to chemical agents normally used for maintenance
- Oil resistance: this product resists most oils
- Suitable for loose laying: does not require application with adhesive
- Good resistance to scratches
- Excellent flexibility and comfort
- Cut mats available on request
- European origin
- Studs sold separately (not included)



### Construction



### Colours / Finish



### Grounding:

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3 less than  $1 \times 10^9$  ohms for working surfaces. Industry recommendation is that continuous runs of ESD matting should be grounded at 10ft intervals to allow proper charge decay rates. Each individual ESD mat should be grounded with ground snaps located no further than five feet from either end.

### Cleaning:

Please note that contact between the matting surface and any acid or alkali solvent is strictly prohibited (such as Benzene, Alcohol etc), this will result in the antistatic performance wearing away. If cleaning is required, the matting may be wiped with a cloth coated in a neutral solution (such as water).

### Guidance on Use:

Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to relax for at least 4 hours before cutting to size. Matting should always be trimmed with a sharp knife or razor blade.

### Cutting Tolerances:

Width  $\pm 6$ mm

Length  $\pm 6$ mm every linear foot of running material

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### Test Results

Details	Test Standard	Results
Material	-	Conductive rubber, static dissipative rubber
Thickness	-	2mm
Width	-	120cm
Length	-	10m per roll
Surface	-	Non-shining
Tester	-	ETS 406C Static Decay Meter, 3M Model 701 Test Kit for Static Control Surfaces
Hardness	ISO 7619	75±5 shore A
Abrasion Resistance	ISO 4649, method A	≤200mm <sup>3</sup>
Indentation	EN433	≤0.2mm
Cigarette burning resistance	EN1399	No burn
Chemical resistance	EN423	Resistant to chemical agents normally used for maintenance
Dimensional Stability	EN424 - 6h/80°C	≤0.4%
Surface Resistance Top Layer	EN 100015.1-IEC61340	About 10 <sup>8</sup> Ω
Surface Resistance Bottom Layer	EN 100015.1-IEC61340	About 10 <sup>5</sup> Ω

Characteristic	Standard	Average Results (Ω)
Surface Resistance	IEC 61340-4-1	1×10 <sup>7</sup> / 1×10 <sup>9</sup>
EN 1000015-1	-	5×10 <sup>6</sup> / 5×10 <sup>8</sup>
EOS/ESD S11-11	-	1×10 <sup>7</sup> / 5×10 <sup>8</sup>
Volume Resistance	IEC 61340-4-1	5×10 <sup>6</sup> / 1×10 <sup>8</sup>
Resistance to Ground	EN 100015-1	1×10 <sup>6</sup> / 1×10 <sup>8</sup>
EOS/ESD S11-11	-	1×10 <sup>6</sup> / 1×10 <sup>8</sup>
IEC 61340-4-1	-	5×10 <sup>6</sup> / 5×10 <sup>7</sup>
Charge Decay	FED TM 101C (5000V-50V)	<0.01sec

### Results after accelerated ageing at 70°C for 12 days

Characteristic	Standard	Average Results (Ω)
Surface Resistance	EOS/ESD S11-11	<10 <sup>9</sup>
EN 1000015-1	-	-
Volume Resistance	IEC 61340-4-1	<5×10 <sup>8</sup>
Resistance to Ground	EOS/ESD S11-11	<10 <sup>8</sup>
IEC 61340-4-1	-	<10 <sup>8</sup>
Charge Decay	FED TM 101C (5000V-50V)	<0.02sec

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### Part Number Table

Description	Mat Size	Part Number
ESD Bench Matting - Textured Finish 4 studs in each corner	600mm×1200mm	082-0030F

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