

ULTRACOMFORT MISSION CRITICAL ESD TABLE TOP MATTING

Tri-Layer ESD Bench Mat for Static Control

Part Number: 167-AS, Specifications and Overview

- Cushioning properties reduce mechanical shock and vibration
- Abrasion resistant top layer
- Antistatic expanded foam backing stops the mats from sliding
- Lifetime Warranty on compliance to ANSI/ESD S20.20-2021
- Lays FLAT and Made in the USA!



UltraComfort bench top ESD matting utilizes a proprietary 3 layer construction consisting of a tough but flexible, highly durable, static dissipative pure vinyl top surface permanently bonded to a static conductive internal inner layer bonded to a static dissipative non-slip foam bottom layer. UltraComfort meets the stringent recommendations of ANSI ESD S.2020-2021, JEDEC EIA 625, MIL-HDBK-263 and MIL-STD-1686.

UltraComfort is not dependent on humidity for conductivity and passes critical ESD audits with ease. Unlike many antistatic mats UltraComfort's shielded conductive inner layer provides a continuous equipotential ground plane for outstanding electrical consistency and static decay. UltraComfort is easy to clean and resistant to most common chemicals used in manufacturing. UltraComfort is perfect for use with or without constant mat monitors. It's reliable, easy to custom cut, lays flat and provides optimum static control for mission critical applications

Static Control Properties: Meets: EIA 625, MIL-HDBK-263, MIL-STD-1686 and ANSI ESD S20.20-2021

NOTE: For best results ground ALL 3 layer matting with push and cinch fasteners.

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| Product Qualification: ANSI/ESD S20.20-2021 |
| STM4.1-2017: PASS |
| RTG: >1.0E06 <1.0E09 |
| PTP: >1.0E06 <1.0E09 |
| Compliance Verification: ANSI/ESD S20.20-2021, TR-53 (Work Surface Section): PASS @<1.0E09 |
| Charge Decay Time: 1,0000 Volts to 50 Volts per MIL-Std.3010C, Method 4046 (formerly FTM 101C, method 4046), EIA 541, Appendix F, EN 100015/DIN 51953: <.2 seconds |

Point of Origin: USA



Suggested Service Temperature: -20 °F to +200 °F (suggested general range for most flexible vinyl products)

Chemical Resistance: Resistant to degradation by inorganic acids, reducing agents, detergent solutions, alcohols, aliphatic hydrocarbons, mineral oil, amines and aldehydes.

Physical Properties:

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| Colors: | Blue and Gray | |
| Available Sizes: | 2, 3 & 4 foot widths, full rolls and custom cut sizes | |
| Emboss: | kid grain (semi-smooth) | |
| Gauge: | 0.125" +/- .020 | |
| Tensile: | 350 lb./ in2 minimum | ASTM D412, Die C |
| Elongation: | 110 0/0 standard | ASTM D412, Die C |
| Tear: | 70 lb./in minimum | ASTM D624, Die C |
| Durometer: | 65-75, Shore A | ASTM D2240 |

Revision History

6/2/2006: Initial Release
 9/17/2020: Updated & approved SRC
 3/17/2023: Updated Point of origin SRC
 3.24/23: Added enhanced mechanical specification and thickness options. SRC
 7.7.23: Added push and cinch recommendation for grounding. SRC