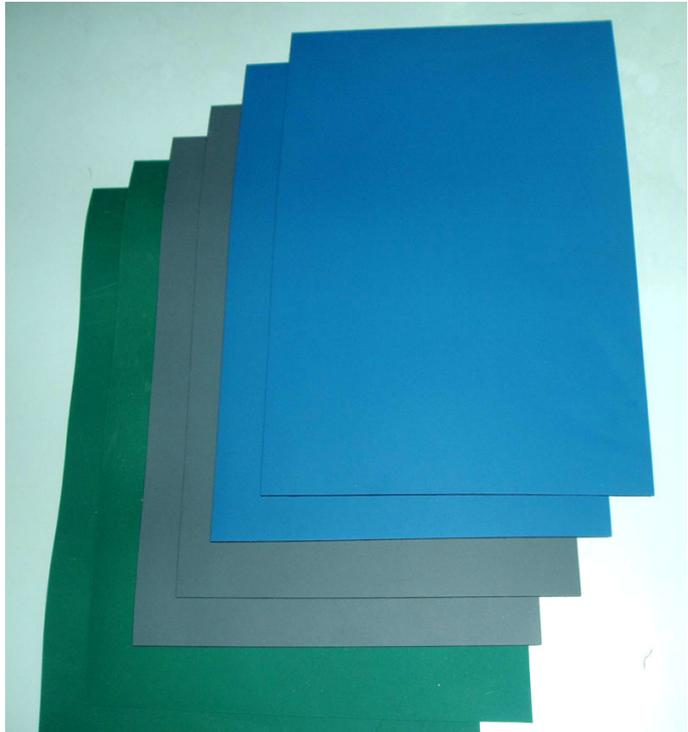


ESD table mat

ETAMA JSC is proud to introduce ESD table mat. This ESD mat is a static dissipative industrial grade elastomer designed for use on table and other grounded work bench surfaces. Its electrical properties are volume dissipative unlike many of the surface dissipative properties of the competition. This material was developed to conform to the most stringent ESD and lead-free requirements. It is a chemically cross linked material with different electrical resistances on both surfaces. Because it is inherently cross linked the material will not delaminate and is volume conductive. The layers are permanently dissipative with polymers that which will not lose its electrical properties, not exudate and more importantly will not outgas and contaminate clean room environments.

The material is as durable as rigid laminates, and as comfortable and appealing as softer rubber or vinyl mats. Suitable for use with constant monitor systems.

Because of the structure, the material meets both the ANSI/ESD S20.20 and European IEC 61340-5-1 specifications and therefore has outstanding charge dissipation, rapid charge decay, no charge suppression and outstanding low tribogeneration properties. The material will withstand solvents, soldering iron deformation, not curl and have excellent abrasion resistance. The embossed surface will reduce light glare, increase part slip resistance and facilitate cleaning. Since the material is free from halogens, lead, arsenic, barium, heavy metals, phthalate plasticizers, vinyl monomer, asbestos, formaldehyde, antimony, chromium, cadmium and other dangerous volatiles, it may be used in environments where out gassing and contamination is of concern.



Technical specifications:

Electrical properties at 12% Relative humidity

RTT Resistance between two points

2.1 x 10⁷ ohms at 10 volts / ANSI/ESD S4.1
1.3 x 10⁷ ohms at 100 volts / ANSI/ESD S4.1
DIN 51953, IEC-61340-2-3

RTG Resistance between point to ground

6.1 x 10⁷ ohms at 10 volts / ANSI/ESD S4.1
5.3 x 10⁷ ohms at 100 volts / ANSI/ESD S4.1

Volume Resistivity

After 48 hours at 12% RH 4.6 x 10⁷ ohms-cm

Decay time

100 volts to 50 volts per FTM 101C method 4046,
ANSI/ESD S541 Appendix F, EN 100015/DIN 51953
Meets or exceeds ASTM F-150, NFPA-99, ANSI/ESD
STM 7.1, UL-779, EN 100015, DIN 51953, ANSI/ESD
S20.20 IEC-61340-5-1

Physical Characteristics

Hardness: 85+/- 5 Shore A per ASTM D-2240

Abrasion Resistance: Tabor abrasion test h-18 wheel
(1000 cycles) 500 gram load. Under .5 grams loss

Surface Texture: Low glare for user comfort

Temperature Resistance: Withstands soldering iron contact

Cleanability: Mild cleaning solution such as ESD Bio-Cleaner

RoHS compliant