



Ultimat™ Static Dissipative Work Surface Material

Description

Ultimat 1™ is a static control industrial grade elastomer designed for use on tables and benchtops. Its electrical properties are volume dissipative unlike many of the surface dissipative properties of the competition. This material was developed to conform to the new Class Zero requirements. Ultimat 1 is Proudly Made in The U.S.A!

Ultimat 1™ is a combination of chemically crosslinked materials with different electrical resistances on both surfaces.

Because Ultimat 1 is inherently crosslinked, the material is so electrically stable that these properties are **WARRANTED FOR LIFE!** Ultimat 1 is odor free and will not exudate or out gas. This material may be supplied as a kit that includes a common point ground, wrist strap, and even a bottle of mat cleaner and towel.

The material lays flat right out of the box, is as durable as rigid laminates, and as comfortable and appealing as the softer rubber table mats. Ultimat 1 is perfect for use with all types of ESD Constant monitors and contains a UV protectant that stops the color from fading over time. The material will withstand solvents, soldering iron deformation, and has 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 outgassing and contamination is of concern.



Property

Embossed finish
Reversible
.080 inch (2mm) thickness
.05 sec, decay time
10⁶- 10⁸ ohms, ohm-cm,
RTG, RTT, Vol R
Available in blue, gray, beige
Widths: 24 and 48 inches
Lengths: 40 feet
Durable surface
Low outgassing and VOC
Low abrasion
No vinyl monomers, or DOP
UV Additives

Benefit

No glare, easy cleaning, no part sticking
One side colored, other side black. Ideal for fiber optics
Durability, non-curling and lays flat
Rapid, safe static decay

- *Meets ANSI ESD S20.20 Standards.
- *Fits all benches. Custom widths available
- *Easy to cut and ship to weight limitations
- *Will withstand temperature, solder and flux
- *Ideal for many cleanrooms
- *Environmentally responsible
- *Electrical Properties Warranted for life

Roll dimensions: 48" wide by 40 feet long and 24" wide by 40 feet long
Mat sizes: 24" by 16", 24" by 48", 30" by 48", 36" by 48"
Colors: Blue, beige, grey, Other colors available

Ultimat™ ESD Dissipative Work Surface Material Why Choose Static Solutions?

- *When quality is critical.
- *When service and creditability are important.
- *When satisfaction and quality is important.
- *When technical support is important.
- *When adequate inventory levels are important.

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Electrical properties @12% Relative humidity RTT Resistance between two points 2.1 X 10 ⁷ ohms @ 10 volts / EOS std S-4 1.3 X 10 ⁷ ohms @ 100 volts/ EOS std S-4 DIN 51953, IEC-61340-2-3 RTG Resistance between point to ground 6.1 X 10 ⁷ ohms @10 volts/EOS std S-4 5.3 X 10 ⁷ ohms @ 100 volts/EOS std S-4 DIN 51953, IEC-61340-2-3 Volume Resistivity After 48 hours@12% RH 4.6 X 10 ⁷ ohm-cm. Decay time 100 volts to 50 volts per Per FTM 101C method 4046, EIA 541 Appendix F, EN 100015/DIN 51953 Meets or exceeds ASTM F-150, NFPA-99, ESD S7.1, UL-779, EN 100015, DIN 51953, EOS 20/20, IEC-61340-5-1 Physical Characteristics Hardness: 85+/- 5 Shore A per ASTM D-2240	Abrasion Resistance: Taber abrasion test H-18 wheel (1000 cycles) 500 gram load. Under .5 grams loss Surface Texture: Low glare for user comfort Outgassing: Excellent Chemical Resistance: Withstands solvent exposure U.V. Stability: Excellent Temperature Resistance: Withstands soldering iron contact Colors: Blue, beige, gray. Other colors available with minimums. Cleanability: Mild cleaning solution such as Ohm-Cide , MC-4500, CI-9001 Width: 24 Inches, 48 inches. Length: 40 foot roll. Snaps and ground cords available. Thickness: .080 inches. 2.0 mm. Lies flat, no curl Installation: Sharp blade, or scissors.
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Uses and Applications

- Electronics manufacturing
- Pharmaceutical plants
- Clean rooms
- Computer installation
- Fiber Optics
- Hospitals
- Defense and military
- Chemical processing
- Explosives
- Printing
- Aviation

Warranty: Static Solutions, Inc. expressly warrants that for a period of (1) one year from the date of purchase any Static Solutions, Inc. product will be free of defects in materials and will function within its specifications. Within the warranty period, the product will be repaired or replaced at Static Solutions, Inc.'s option with no cost to the customer as long as Static Solutions, Inc. receives notice during the warranty period. Defective products must be shipped prepaid to Static Solutions, Inc.'s factory. Call Static Solutions, Inc. customer service at 508-480-0700 for a return authorization number. Include a copy of the invoice, packing slip, or other proof of purchase.

Warranty Exclusion: The foregoing express warranty is made in lieu of other product warranties express and implied, including merchantability and fitness for a particular purpose which are specifically or indirectly disclaimed. The express warranty will not apply to defects or damage due to neglect, misuse, accidents, alterations, operator error, failure to properly maintain, follow instruction, or failure to clean or repair products.

Limit of Warranty: In no event will Static Solutions, Inc. or seller be responsible or liable for special, incidental or consequential losses or damages, whether based on tort, contract, or the use of or inability to use, the product. Before using the product users shall determine the suitability of the product for their intended use. The users assume all risk and liability whatsoever in connection therewith. Fulfillment of Static Solutions, Inc.'s warranty obligations will be the customer's exclusive remedy and Static Solutions, Inc. and seller's limit of liability for any breach of warranty or otherwise.



331 Boston Post Road - East
Marlborough, MA 01752, USA
Tel: 508.480.0700
Fax: 508.485.3353

DISTRIBUTED BY:
United Static Control Products
Telephone: 719 676 3928
[Click to Contact us](#)

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