

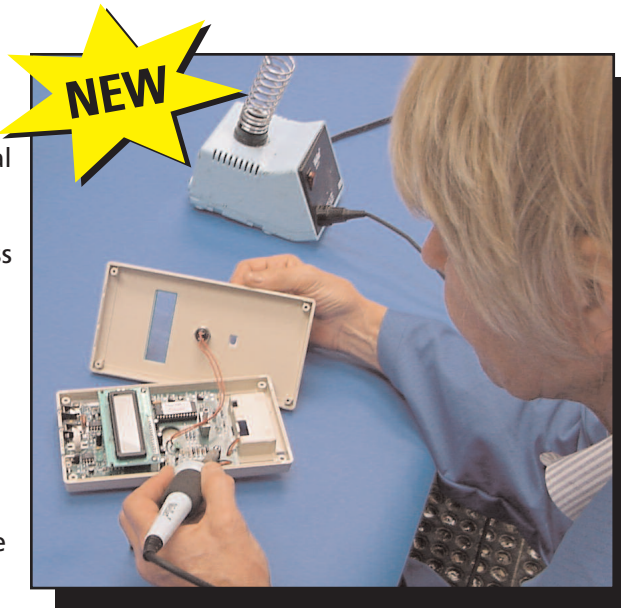


# Ultimat™ Static Dissipative Work Surface Material

## Description

Ultimat™ is a new technology static dissipative industrial grade elastomer designed for use on tables 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 with the new Class Zero requirements. Static Solutions has introduced more new products during the past 7 years than any other ESD company. The tradition continues.

Ultimat™ is a chemically crosslinked material with different electrical resistances on both surfaces. Because it is inherently crosslinked the material will not delaminate and is volume conductive. The layers are permanently dissipative with 'space age dissipative polymers' which will not lose its electrical properties, not exudate, and more important will not outgas and contaminate in clean room environments. The material is as durable as rigid laminates and as comfortable and appealing as the softer rubber table mats. Works great with continuous monitors.



Because of its structure the material meets both the US EOS 20/20 and European IEC 613450-5-1 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 outgassing and contamination is of concern.

### Property

- Embossed finish
- Reversible
- .080 inch (2mm) thickness
- .05 sec, decay time
- 10<sup>6</sup>- 10<sup>8</sup> 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, lays flat
- Rapid, safe static drain
- Meets all electrical specifications-all humidities
- Aesthetically appealing, other colors available
- Fits all benches. Other widths available
- Easy to cut and ship to weight limitations
- Will withstand temperature, solder, flux, and harsh chemicals
- Ideal for cleanrooms and other controlled areas
- Durability
- Environmental and personnel safety and conformance
- Color Stability

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 especially with the new Class Zero concerns.
  - When service and creditability are important and critical.
  - When satisfaction and quality is important.
  - When technical support and customer service is important.
  - When adequate inventory levels are important.
  - When a national distributor network and one stop ESD shopping is important.
  - When you want a company who has introduced more new products and have presented more technical papers at the prestigious EOS Symposium call Static Solutions.
- Then select ULTIMAT™. Only from Static Solutions.



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

- ## 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.



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