



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
 $10^6 - 10^8$ 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.

Electrical properties @12% Relative humidity

RTT Resistance between two points

2.1 X 10⁷ ohms @ 10 volts / EOS std S-4
1.3 X 10⁷ ohms @ 100 volts/ EOS std S-4
DIN 51953, IEC-61340-2-3

RTG Resistance between point to ground

6.1 X 10⁷ ohms @10 volts/EOS std S-4
5.3 X 10⁷ ohms @ 100 volts/EOS std S-4
DIN 51953, IEC-61340-2-3

Volume Resistivity

After 48 hours@12% RH 4.6 X 10⁷ 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.



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.



Static Solutions, Inc.

For additional OHM-SHIELD™ product literature,
call, fax, or email sales at All-Spec Industries

DISTRIBUTED BY:

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Static Solutions, Inc.

"Strategies, Solutions and Innovations"

This certificate may not be duplicated for any reason

CERTIFICATION

You have purchased the finest ESD rubber in the industry today, which has been professionally tested using the National Institute of Standards and Technology (NIST) traceable measuring equipment. This equipment is rated to operate satisfactorily within the performance specification guidelines.

ITEM # Ohm Stat UM

SERIAL# Ultimat Rubber

Values are between 1XE5- 9XE8 ohms tested at 100 volts.

MANUFACTURERS REPORT #: Mat meets all EOS-20/20 specifications for resistivity,

EQUIPMENT USED: Solatron 7071 volt, HP 4339A resist. meter, Dickson TH550,
Omega GT-1546Y
,2005

TEST PERFORMED BY: Jake McGraw

Jake McGraw

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