



# Ground Zero Electrostatics BENCH MATTING SPECIFICATIONS

## ULTRA CON TM

### Ultra Con TM

2-LAYER High Temperature Rubber ESD Matting  
Ultimate static safe work surface for electronic assembly areas.

Item Number BM-UC (L x W) - Blue or Gray

#### SIZES AVAILABLE

ROLLS: 18" X 50', 24" X 50', 30" X 50', 36" X 50', 48" X 50'  
Custom and Precuts available

#### ELECTRICAL PROPERTIES:

RTT: < 9.5 X 10<sup>7</sup> @ 10 Volts per EOS / ESD 4.1  
RTG: < 8.5 X 10<sup>6</sup> @ 10 Volts per EOS / ESD 4.1

### Ultra Con Elite

2-LAYER High Temperature Rubber ESD Matting  
Ultimate static safe work surface for electronic assembly areas.

Item Number BM-UC-E(L x W) - Blue Top, Black Bottom

#### SIZES AVAILABLE

30" X 30' Roll  
Custom and precut sizes available

#### PHYSICAL PROPERTIES:

Thickness: .078 (standard) .060, .090 (Optional)  
Tensile, >1000 PSI  
Durometer > 60 (Shore A)  
Colors, Blue or Black  
Available in custom cut or roll form, 2-layer (standard), 3-layer (optional)

#### ELECTRICAL PROPERTIES:

Surface Resistance  
EN 100015.1 5x10<sup>6</sup> - 5x10<sup>8</sup>  
EOS/ESD.S4.1990/100 V 1x10<sup>7</sup> - 1x10<sup>9</sup>  
EOS/ESD.S4.1990/10 V 1x10<sup>7</sup> - 1x10<sup>9</sup>  
Resistance/Ground  
EN 100015.1 5x10<sup>6</sup> - 5x10<sup>8</sup>  
EOS/ESD.S4.1990/100 V 1x10<sup>6</sup> - 1x10<sup>8</sup>  
EOS/ESD.S4.1990/10 V 1x10<sup>6</sup> - 1x10<sup>8</sup>  
Charge Decay  
FED TM 101 (From 5000 to 50V)0.01 sec

#### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hrs  
Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.  
Test results =Time, seconds to decay to 10% of initial charge  
Results: <0.05 seconds

#### PHYSICAL PROPERTIES:

Thickness: .060 (standard) .078, .090 (Optional)  
Tensile, >1000 PSI  
Durometer > 60 (Shore A)  
Colors, Blue or Gray  
Available in custom cut or roll form, 2-layer (standard), 3-layer (optional)

#### CHEMICAL RESISTANCE

Determined according to the standard DIN 51958  
NA=No Alteration  
AA=Appearance Alteration  
HA=Hardness Alteration

CHEMICALS	2 min.	1 hour	24 hrs
Acetic Acid	NA	NA	NA
Ammonia (10%)	NA	NA	NA
Sulfuric Acid (30%)	NA	NA	NA
Nitric Acid (10%)	NA	NA	AA
Hydrochloric Acid (10%)	NA	NA	AA
Sodium Hydrate (10%)	NA	NA	AA
Sodium Hypochlorite	NA	NA	NA
Sodium Carbonate (sat.)	NA	NA	NA
Hydrogen Peroxide	NA	NA	NA
Ethyl Alcohol (50%)	NA	NA	NA
OIL ASTM 1	NA	NA	AA
OIL ASTM2	NA	NA	AA
Petroleum	NA	NA	AA
Black Printing Ink	NA	NA	AA
Perchloroethylene	NA	NA	AA & HA
Beer	NA	NA	NA
Butter	NA	NA	AA
Citrate Acid	NA	NA	AA
Carbonated drinks	NA	NA	NA
Fruit Juice	NA	NA	NA



Ground Zero Electrostatics  
Cedar Village Executive Offices  
4916 26th Street West Suite 100  
Bradenton, Florida 34207

**Toll Free** 1-877-GND-ZERO (463-9376)  
**Voice** 1-941-751-7581  
**Fax** 1-941-751-7586  
**Email** info@gndzero.com  
<http://www.gndzero.com>

# COMFORT CUSHION SERIES

## Comfort Cushion

3-LAYER Vinyl ESD Matting

Excellent ESD elimination for all sensitive areas

**Item Number** BM-CC (L x W) - Blue or Gray

### SIZES AVAILABLE:

**Rolls** 30" x 50', 2' x 50', 3' x 50', 4' x 50'

Also available in 100' rolls Custom and precuts available

### ELECTRICAL PROPERTIES:

RTG:  $<5.5 \times 10^7$  @ 10 Volts per EOS / ESD 4.1

RTT:  $<5.5 \times 10^7$  @ 10 Volts per EOS / ESD 4.1

Surface Resistivity:  $< 10^9$  per EOS / ESD S11.11

## Comfort Cushion Elite

2-LAYER Vinyl ESD Matting

Excellent ESD elimination for all sensitive areas

**Item Number** BM-CC-E (L x W) - Blue or Gray

### SIZES AVAILABLE:

**Precut** 18' X 23" (16 per box)

**Rolls** 52' x 40', 2' x 40'

### ELECTRICAL PROPERTIES:

RTG:  $<5.5 \times 10^7$  @ 10 Volts per EOS / ESD 4.1

RTT:  $<5.5 \times 10^7$  @ 10 Volts per EOS / ESD 4.1

Surface Resistivity:  $< 10^9$  per EOS / ESD S11.11

## Comfort Cushion Elite Plus

3-LAYER Vinyl ESD Matting

Excellent ESD elimination for all sensitive areas

**Item Number** BM-CC-EP (L x W) - Blue or Gray

This extremely thick, 3 layer advanced fusion vinyl / foam / vinyl bench top matting features the best cushioning properties in the industry combined with aggressive static decay rates. The top layer is a wear resistant, easy to clean static dissipative Vinyl having sufficiently low resistance to discharge static-laden conductors, while preventing the shorting of pins on the backs of printed circuit boards laid on the mat. The middle layer is a thin highly conductive scrim providing and the aggressive static decay while the bottom layer is a energy absorbing vinyl foam finished with a non skid profile. This product provides the cushioning desirable when working with hard drives and other (mechanically) shock sensitive devices while providing the electrostatic charge decay and resistivity recommendations of EOS ESD 2020 as well as most other stringent standards.

### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hrs.

Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.

Test results = Time, seconds to decay to 10% of initial charge

Results:  $<2.0$  seconds

### PHYSICAL PROPERTIES:

Thickness: .125

**Optional:** Comfort Cushion Elite - .25 and Comfort Cushion Elite Plus - .375

Colors: Blue or Gray

### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hrs.

Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.

Test results = Time, seconds to decay to 10% of initial charge

Results:  $<2.0$  seconds

### PHYSICAL PROPERTIES:

Thickness: .25

**Optional:** Comfort Cushion Elite Plus - .375

Colors: Blue or Gray

Available in custom cut or roll form

### SIZES AVAILABLE:

**Precut** 18" x 23" (12 per box)

**Roll** 30" x 50', 3' x 50'

Custom Cuts Available

### ELECTRICAL PROPERTIES:

RTG:  $<5.5 \times 10^7$  @ 10 Volts per EOS / ESD 4.1

RTT:  $<5.5 \times 10^7$  @ 10 Volts per EOS / ESD 4.1

Surface Resistivity:  $< 10^9$  per EOS / ESD S11.11

### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hours

Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.

Test results = Time, seconds to decay to 10% of initial charge

Results:  $<2.0$  seconds

### PHYSICAL PROPERTIES:

Thickness: .375

**Optional:** Comfort Cushion Elite - .25

Colors: Blue or Gray

Available in custom cut or roll form



Ground Zero Electrostatics  
Cedar Village Executive Offices  
4916 26th Street West Suite 100  
Bradenton, Florida 34207

**Toll Free** 1-877-GND-ZERO (463-9376)

**Voice** 1-941-751-7581

**Fax** 1-941-751-7586

**Email** info@gndzero.com

<http://www.gndzero.com>

## Duro-Stat

Homogenous Vinyl ESD Matting  
Dissipative & highly durable ESD dissipation for all sensitive areas

**Item Number** BM-DS (L x W) - Blue or Gray

### SIZES AVAILABLE:

**Rolls:** 30" x 50', 2' x 50', 3' x 50', 4' x 50'

Also 100' rolls available

Custom and precuts available.

### ELECTRICAL PROPERTIES:

RTG:  $<8.5 \times 10^9$  @ 10 Volts per EOS / ESD 4.1

RTT:  $<8.5 \times 10^9$  @ 10 Volts per EOS / ESD 4.1

## Duro-Stat Elite

Homogenous Vinyl ESD Matting  
Dissipative & highly durable ESD dissipation for all sensitive areas

**Item Number** BM-DS-E (L x W) - Blue or Gray

### SIZES AVAILABLE:

**Rolls** 30" x 50', 2' x 50', 3' x 50', 4' x 50'

Custom and precuts available.

### ELECTRICAL PROPERTIES:

RTG:  $<8.5 \times 10^9$  @ 10 Volts per EOS / ESD 4.1

RTT:  $<8.5 \times 10^9$  @ 10 Volts per EOS / ESD 4.1

## Duro-Stat Elite Plus

3 - Layer Homogenous Vinyl ESD Matting  
Dissipative & highly durable ESD dissipation for all sensitive areas

**Item Number** BM-DS-EP (L x W) - Blue or Gray

### SIZES AVAILABLE

**Rolls:** 30" x 50', 2' x 50', 3' x 50', 4' x 50'

Custom and precuts available.

### ELECTRICAL PROPERTIES:

RTG:  $<8.5 \times 10^9$  @ 10 Volts per EOS / ESD 4.1

RTT:  $<8.5 \times 10^9$  @ 10 Volts per EOS / ESD 4.1

### CHARGE DECAY:

### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hrs

Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.

Test results = Time, seconds to decay to 10% of initial charge

Results: <2.0 seconds

### PHYSICAL PROPERTIES:

Thickness: .060 (standard)

**Optional:** Durostat Elite - .093 and Durostat Elite Plus - .093 - 3-Layer

Colors: Blue or Gray

Available in custom cut or roll form

### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hours

Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.

Test results = Time, seconds to decay to 10% of initial charge

Results: <2.0 seconds

### PHYSICAL PROPERTIES:

Thickness: .093

**Optional:** Durostat Elite Plus - .093

Colors: Blue or Gray

Available in custom cut or roll form

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hours

Test conducted @: 50% RH +/- 2% @ 230C +/- 10C.

Test results = Time, seconds to decay to 10% of initial charge

Results: <2.0 seconds

### PHYSICAL PROPERTIES:

Thickness: .093

**Optional:** Durostat Elite - .093 - 3-Layer

Colors: Blue or Gray

Available in custom cut or roll form



Ground Zero Electrostatics  
Cedar Village Executive Offices  
4916 26th Street West Suite 100  
Bradenton, Florida 34207

**Toll Free** 1-877-GND-ZERO (463-9376)

**Voice** 1-941-751-7581

**Fax** 1-941-751-7586

**Email** info@gndzero.com

<http://www.gndzero.com>

## Ultra-Purpose

2-LAYER Vinyl ESD Matting

Dissipative & cost effective ESD solution for all sensitive areas

**Item Number** BM-UP- (L x W)

### Sizes Available:

Precut: 24" x 48"

Roll: 48' X 100'

Custom Cuts Available

### ELECTRICAL PROPERTIES:

RTG: <8.59 @ 8.59 Volts per EOS / ESD 4.1

RTT: <8.59 @ 8.59 Volts per EOS / ESD 4.1

Surface Resistivity: 1010 per EOS / ESD S11.11

### CHARGE DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 Hours

Test conducted @: 50% RH +/- 2% @ 230C +/-10C

Test results = Time, seconds to decay to 10% of initial charge

Results: <2.0 seconds

### PHYSICAL PROPERTIES:

Thickness: .125

Colors: Gray

Available in custom cut or roll form



Ground Zero Electrostatics  
Cedar Village Executive Offices  
4916 26th Street West Suite 100  
Bradenton, Florida 34207

**Toll Free** 1-877-GND-ZERO (463-9376)

**Voice** 1-941-751-7581

**Fax** 1-941-751-7586

**Email** [info@gndzero.com](mailto:info@gndzero.com)

<http://www.gndzero.com>