



Ground Zero Electrostatics BENCH MATTING SPECIFICATIONS

ULTRA CON

Ultra Con

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 10⁷ @ 10 Volts per EOS / ESD 4.1

RTG: < 8.5 X 10⁶ @ 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 5x10⁶ - 5x10⁸

EOS/ESD.S4.1990/100 V 1x10⁷ - 1x10⁹

EOS/ESD.S4.1990/10 V 1x10⁷ - 1x10⁹

Resistance/Ground

EN 100015.1 5x10⁶ - 5x10⁸

EOS/ESD.S4.1990/100 V 1x10⁶ - 1x10⁸

EOS/ESD.S4.1990/10 V 1x10⁶ - 1x10⁸

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



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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



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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



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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



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