



Ground Zero Electrostatics ESD CARPETING SPECIFICATIONS

ZeroStat ESD Control Carpet

Tropical Series

ELECTRICAL PROPERTIES:

Electrical Resistance per EOS/ESD 7.1 @ 100 volts
PTP: 1.8E06 ohms to 1.8E08 ohms
RTG: 1.0E06 ohms to 7.3E07 ohms

ELECTROSTATIC PROPENSITY per (AATCC-134):

Neolite Step Test, <50 Volts, - polarity
Neolite Scruff Test, <75 Volts, - polarity

ELECTROSTATIC PROPENSITY: (ESD Footwear)

Test chamber at 79 degrees, 22%RH. Neolite XS 664 soles, grounding per Ground Zero specifications using GZ-C2000 conductive adhesive, metal plate underlayment
Step <10 Volts
Scuff <20 Volts

STATIC DECAY:

Conditioning: 50% RH +/- 2% @ 230C +/- 10C for 24 hours. Tested @: 50% RH +/- 2% @ 230C +/- 10C: <0.02 seconds, (results = time to decay to 10% of initial charge).

OTHER PROPERTIES:

Anti-Fatigue: Dense PVC backing

Noise Reduction Coefficient (ASTM C 423-89): .22 - .25
Resistance to

Fading: (AATCC 16E) Five times greater resistance to light than conventional dyeing methods

Soil Resistance: Soil resistant fiber & special chemical soil resistance treatment. Fleck and Heather colors as well as textured loop construction help hide soil

Flammability - Methenamine Pill Test: (CPSC FF 1-70) self extinguishing

Radiant Panel Test: (ASTM E 648) Class 1 4.5 W/cm²

Average Critical Radiant Flux: >0.25 W/cm² Class II

Smoke Density Test: (ASTM E 662 / NFPA 25/ <450, flaming mode) passes

Flaming Mode: <450 Class II

Fully Recyclable: yes

ADA Compliance: meets guidelines as set forth in the Americans with Disabilities Act for minimum static coefficient of friction of 0.060 (ASTM-1028-89, ASTM-1028-89) for accessible routes

FIBER/CONSTRUCTION:

YARN:

Face: 100% Continuous filament Aquafil Alto Chroma

Dye Method: Solution dye technology

Conductive Fiber: Solution dyed twisted 2/2 ply with continuous 44 denier conductive fiber in every yarn end
PILE:

Surface Texture: Dense tufted, textured loop

Yarn Weight / tufted: 26 oz. square yard

Pile Height: 0.125 inch average

BACKING:

Primary: woven synthetic

Secondary (Broadloom): Action back, total weight 52 oz/sq yd minimum

Secondary (Tiles): Fiberglass reinforced static dissipative PVC, total weight 134 oz/sq yd minimum

DENSITY:

Gauge: 1/10

Stitch Count: 10 SPI

Tufts: 100

Weight: Yarn oz/sq. Yd., Fundamentals 20 oz, Premier 26 oz, Elite 30 oz

SIZES:

Tiles: 18" x 18", 24" x 24" or 36" x 36"

Broadloom: 12' 6"

WARRANTY:

15 year heavy commercial, **LIFETIME WARRANTY ON ELECTRICAL PERFORMANCE**

Inventor Series

PHYSICAL PROPERTIES:

Sound Absorption Test, ASTM C423-90: Noise reduction coefficient, NRC > .25

Radiant Panel Test, ASTM E-648: Average critical radiant flux, Class 1, greater than or equal to .45 w/cm²

NBS Smoke Test, ASTM E-662: Smoke density, < 450

ELECTRICAL PROPERTIES:

Electrical Resistance Test, ESD S7.1

Resistive Characterization of Materials: Six or more readings from surface to groundable point. Tested with an applied voltage of 100V. Measured in Ohms, 1.0 x 10⁵ minimum, 1.0 x 10⁸ maximum

Electrical Resistance Test, ESD S7.1 Resistance

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ZeroStat ESD Control Carpet - (Continued From Previous Page)

Inventor Series

Characterization of Materials: Six or more readings between electrodes placed 1 foot apart. Tested with an applied voltage of 100V. Measured in Ohms, 2.5×10^4 minimum, 5.0×10^7 maximum

Electrical Resistance/Voltage Test ANSI/ESD S-20.20, compliant when using approved conductive footwear system.

Results within recommended range $< 35 \times 10^6$ Ohm or < 100 volts

D.O.D. HDBK263A, Section 40.1.2: Meets recommended guidelines for sensitive ESD devices, Class 1.

CONSTRUCTION

Yarn: oz./sq. yd.: 24oz.

Conductive Fiber: StaticSmart™ FibreLink ESD conductive fiber in every tuft

Construction: Classic - textured loop, straight/PSP with ECC Roll, Contempo - textured graphic loop

Stitches per inch: Classic = 11, Contempo = 10.0

Pile Height: high: 6/32", low: 4/32"

Fiber: Classic - Solutia LXI nylon, Contempo - Performa SD type 6 nylon

Backing: Static dissipative PVC with conductive additive

Total Weight: 148oz./sq. yd.(tile), 54oz./sq. yd.(broadloom)

SIZES:

Tile: 18" x 18", 24" x 24"

Broadloom: 12'

XO-Stat ESD Control Carpet

SIZES AVAILABLE:

12' Broadloom only

ELECTRICAL PROPERTIES:

ASTM 150 / EOS / ESD S4.1

PTP: 2.5×10^8 to 10^9

RTG: 2.5×10^8 to 10^9

STATIC DECAY:

Conditioning: 50% RH +/- 2% @ 23°C +/- 1°C for 24 Hours.

Test conducted @: 50% RH +/- 2% @ 23°C +/- 1°C.

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

Results, <0.01 seconds

BENEFITS:

- ☀ Exceeds Specs for IBM, Western Digital and HP (ESD control, manufacturing environments).
- ☀ Economical protection for offices with sensitive electronics and Networking.
- ☀ Low Maintenance and pleasing ergonomic comfort to boost productivity.
- ☀ Beautiful warm textures and colors, with excellent sound absorption qualities.
- ☀ Featuring a full ten year warranty on abrasive wear.
- ☀ 10 year limited stain removal warranty.
- ☀ 3 year Warranty against manufacturing defects.
- ☀ Lifetime guarantee of conductivity and protection for your valuable electronics.

AZO-Stat ESD Control Carpet

ELECTRICAL PROPERTIES:

PTP: $< 5.5 \times 10^5$ (avg.) @ 100 Volts per NFPA-99

RTG: $< 5.5 \times 10^5$ (avg.) @ 10 Volts per EOS / ESD 4.1

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, <0.01 seconds

Size: 6.6 ft. X 50' Roll Form, 20" X 20" tiles.

BENEFITS:

- ☀ Exceptional ESD performance.
- ☀ Fully conductive backing.
- ☀ Lowest charge generation of any material we have tested.
- ☀ Outstanding Ergonomic comfort.
- ☀ Low Maintenance and pleasing ergonomic comfort to boost productivity.
- ☀ Excellent sound absorption ratings.
- ☀ Beautiful warm textures and colors, with excellent sound absorption qualities.
- ☀ A full 80 oz total weight



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