Ground Zero Electrostatics
PolyStat Vinyl Tile

POLYSTAT VINYL TILE – Fundamentals, Premier, Elite

PolyStat ESD Vinyl Floor coverings by Ground Zero Electrostatics, Inc. feature incredibly consistent ESD performance matched with excellent wear characteristics and color selections. Manufactured using an exclusive calendering process, this truly homogenous vinyl contains an extremely advanced conductive matrix. It's flexible, yet very durable and abrasion resistant. PolyStat won't flake, break or degrade even in the harshest of environments. Other conductive vinyls often exhibit problems with carbon sloughing. Not so with PolyStat. Manufactured to specifications so stringent it's great for use in clean room environments and operating rooms. Available in either static dissipative OR conductive, PolyStat is perfect for long term reliable protection from ESD in electronic manufacturing labs and "long haul" ESD sensitive environments.

PolyStat ESD vinyl flooring is produced in multiple colors and in static dissipative and conductive formulations. The static dissipative variety is supplied with slightly higher resistance levels than our ZeroStat vinyl providing added safety (when used around higher voltages or open power supplies) but don't be fooled, the "just right conductivity" is perfect for fast, efficient electrostatic charge decay. PolyStats' low glare finish can be easily burnished to a high, lustrous shine and never requires conductive waxes or finishes. Installation is similar to standard vinyl flooring and roll goods can be easily welded for a seamless one piece floor that will resist dirt and contamination better than anything on the market.

Sophisticated design opportunities and color selections abound with PolyStat ESD vinyl flooring. PolyStat is truly a low (to NO) maintenance flooring requiring no polish, coating, or wax ever. Simply remove abrasives by sweeping and damp moping. For a high shine just burnish with a high speed floor buffing machine and Ground Zero approved ESD conductive polishing spray.

Features:

- Popular Designer Colors
- Options in Conductivity
- Roll goods or Tiles
- Outstanding longevity
- Low (to no) maintenance
- High shine or low glare finish

4916 26th Street West, Suite 100, Bradenton, Florida 34207
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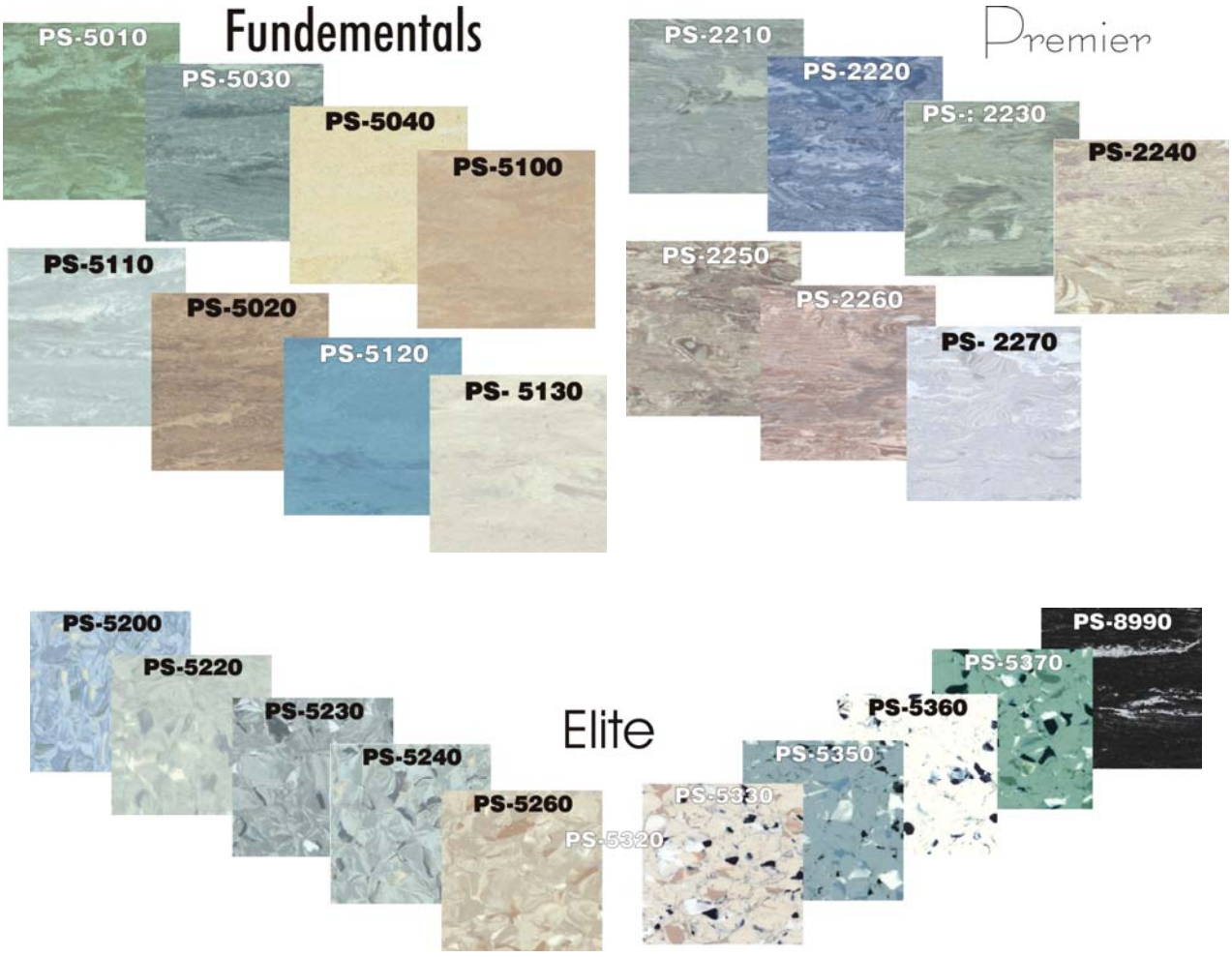
Colors



Note: Standard color offering is subject to change. Due to color variations in printing and monitor resolution, please refer to actual samples for accurate color.

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SPECIFICATIONS

Physical Specifications:

- Gauge: 2.0 mm
- Sheet Width: 2m
- Sheet Length: 20m
- Roll Size: 40 m^2
- Weight: 3.50 kg/m^2
- Tile Size: 608 mm x 608 mm

Flame Spread and Smoke Emissions:

- BS; 476 Part 7, 1987: Class 2
- Din 4102: B1
- ASTM E648: Class 1
- AS 1530.3: Flame Spread 0

Static Decay: Federal Test Method 101C, method 4046TW101B at 15% relative humidity: <0.5 sec

Static Propensity: AATCC-134, Conditions: 68 deg, RH @ 50%, Underlayment, earth grounded metal plate **(non-conductive Neolite foot ware):** Step <75 V+, scuff <100 V+

Static Propensity: AATCC-134, Conditions: 68 deg, RH @ 40%, Underlayment, earth grounded metal plate, Soles Neolite XS 664 with static dissipative polyurethane heel grounders: **(conductive footwear):** Step <25V+, scuff <30V+

Light Fastness: >7

In Use Area Classification per EN 685: 34/43

Electrical Resistance: PolyStat Static Conductive

- PTP: 5.1 x 10^4 to 2.5 x 10^6 @ 10 Volts
- RTG: 5.1 x 10^4 to 2.5 x 10^6 @ 10 Volts

Electrical Resistance: PolyStat Static Dissipative:

- PTP: 1.1 x 10^7 to 5.5 x 10^9 @ 100 Volts*
- RTG: 1.1 x 10^6 to 8.5 x 10^8 @ 100 Volts*
- Abrasion Resistance: EN 649: 1996, Group P

Installation Adhesives: GZ-C2000 or URAS conductive releasable adhesive only.

Static load limit: Per ASTM F-970

Chemical Resistance: PolyStat has good resistance to dilute acids and alkalis. See chemical resistance chart below:

Chemical Resistance: 1 Hour Exposure Time	
Sulfuric Acid (Conc.) 95%	No effect
Sulfuric Acid (77%)	No effect
Sulfuric Acid (5%)	No effect
Nitric Acid (Conc.)	Very slight surface attack
Nitric Acid (5%)	No effect
Hydrochloric Acid (Conc.)	No effect
Hydrochloric Acid (5%)	Very slight surface attack
Acetic (Conc.)	No effect
Acetic (5%)	No effect
Sodium Hydroxide (50%)	No effect
Ammonium Hydroxide (28%)	No effect
Methyl Alcohol	No effect
Ethyl Alcohol	No effect
Butyl Alcohol	No effect
Phenol	Very slight surface attack
Benzene	No effect
Xylene	No effect
Cresol	Very slight dulling
Gasoline, Mineral Oil	No effect
Chloroform	No effect
Carbon Tetrachloride	No effect
Trichlorethylene	No effect
Acetone	No effect
Methyl Ethyl Ketone	Slight surface dulling
Amyl Acetate, Ethyl Acetate	No effect
Silver Nitrate (40%)	Slight brown stain
Ethyl Ether	No effect
Formaldehyde (40%)	No effect
Iodine	Yellow stain

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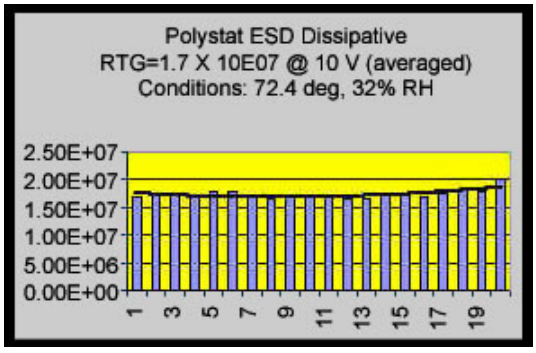
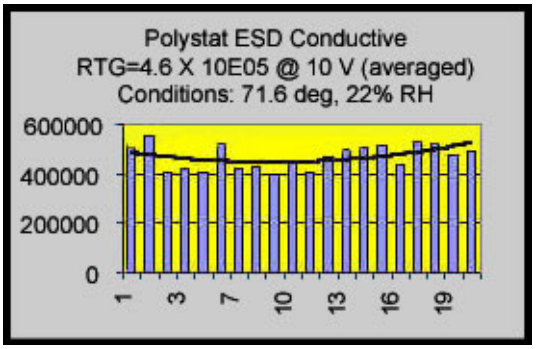
Extended Electrical Testing by Ground Zero ElectroStatics, Inc:

Information below shows our actual "real life" test results after installation at two Facilities (both approximately 70,000 sq/ft each) in separate parts of the Country (one in Mexico, one in California). Testing was performed in accordance with industry accepted standards of EOS ESD 7.1. These floors were installed "on grade" and on cement. Further, the floors were grounded utilizing the advanced parameters shown in How to Ground your new ESD Floor. Your results may vary due to substrate, substrate conditions and environmental conditions prevalent at the testing location.

*Tested at a relative humidity > 30%.

As is the case with many of the modern ESD Vinyls, PolyStat is designed to work as a system in conjunction with GZ-C2000 or URAS conductive adhesive. When testing uninstalled, static dissipative material (without the adhesive) PolyStat SD will show a slightly higher resistance value than those posted in our electrical specifications (prevalent only with the static dissipative materials). PolyStat static dissipative is designed with a built in resistance value that provides added safety to employees that may come into contact with higher voltage / amperage power sources. This added resistance has shown minimal effect in it's ability to drain ESD potential.





Maintenance:

Maintenance is dependant on the nature and intensity of traffic and the specific requirements of the end user. To keep cost low, without compromising standards of hygiene and cleanliness, Ground Zero ElectroStatics, Inc recommends that a maintenance regime be specifically tailored to your needs. Polishes or floor finishes that inhibit the floors electrical performance must not be used. Remove abrasives by sweeping on a regular basis. Damp mop with warm water and approved Ground Zero ElectroStatics, Inc ESD Cleaning solution as needed. A clean floor insures consistent electrical performance. PolyStat ESD Vinyl is initially supplied with a non-glare finish. If your needs require a high shine, simply burnish the material with a high speed floor buffing machine. Contact Ground Zero ElectroStatics, Inc for further recommendations.

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