

# Product Data

## 1. PRODUCT NAME

Conductive & Static Dissipative Solid Vinyl Tile

## 2. COMPANY INFORMATION

Flexco Corporation

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Sweet's Catalog: 09650/FLE; Buyline 0254; [www.sweets.com](http://www.sweets.com)

## 3. PRODUCT DESCRIPTION

### 3.1 Basic Application

Flexco Conductive and Static Dissipative Solid Vinyl Tile effectively dissipates static electricity in hospital operating rooms, anesthetizing areas, radiological facilities, clean rooms, computer/data processing rooms, chemical laboratories, electronics manufacturing, telecommunications installations, pharmaceutical manufacturing, access flooring, ammunitions facilities and other areas where explosive elements are used and static electricity presents a hazard.

Flexco Conductive and Static Dissipative Vinyl Tile helps control static charges on the human body, which can be as high as several thousand volts. By installing the tile with Flexco's specially formulated conductive adhesive, a continuous conductive pathway is created for static charges to flow through the tile and along the conductive adhesive to the ground point. The conductive flooring system attacks voltage generation at the source, the floor-shoe or floor-caster interface. When used in conjunction with static control footwear, the Flexco Conductive Static Control System provides greater mobility in the area. The use of wrist straps is recommended at the workstation for additional ESD control. It is ideal in areas requiring a solution for unwanted Human Body Voltage (HBV) with a high level of personnel traffic. Flexco Conductive and Static Dissipative Solid Vinyl Tile has a lifetime warranty to meet the industry standards for electrical resistance and keeps body voltage generation at the minimum levels demanded in the most sensitive environments. Flexco Conductive Vinyl Tile is UL listed.

### 3.2 Product Construction

Flexco Conductive and Static Dissipative Solid Vinyl Tile is a solid, homogeneous vinyl tile manufactured using first quality, virgin raw materials. Special ingredients are added to provide its excellent light stability, chemical resistance and to ensure an aesthetically pleasing finish without the need for waxing. This monolithic tile is uniform with respect to color, pattern effect, and composition, throughout the thickness of the tile. The unique chip pattern is appealing and requires no floor finish. Flexco Conductive and Static Dissipative Solid Vinyl Tile contain antimicrobials, which it makes it ideal for areas that require resistance to staining by fungi and streptovorticillium reticulum, a pink stain organism. The pure virgin vinyl composition provides excellent resistance to abrasion, chipping, cracking and permanent indentations for heavy-duty performance requirements. It helps conceal most substrate irregularities, and yet it is flexible for fast and economical installations. Flexco Conductive and Static Dissipative Solid Vinyl Tile may be "heat welded" producing a seamless, Unitized Installation. To complement the variety of styles, coordinating wall base and accessories are available. Flexco's new high technology cutting system ensures a Precision Squared™ tile for a precision fit.

### 3.3 Product Types

#### Conductive and Static Dissipative Vinyl Tile

- Gauge: 1/8" (3.175 mm)
- Sizes: 12" x 12" (304.8 mm x 304.8 mm), 24" x 24" (609.6 mm x 609.6 mm) and 36" x 36" (914.4 mm x 914.4 mm), All noted sizes are nominal and Fractional Sizes are available for use on raised/access flooring panels
- Pre-grooved (Beveled) Edges available in 24" x 24" (609.6 mm x 609.6 mm) and 36" x 36" (914.4 mm x 914.4 mm) for Heat Welded Unitized Tile Installation System
- Available Colors; Fourteen standard colors available, see website [www.flexcofloors.com](http://www.flexcofloors.com) for the latest color selection
- Custom Color Tile Matching is available
- Floorcraft Custom Designs are available; Computer-controlled, precision cutting service available for logos, signage or other images incorporated into the flooring layout.

#### 3.4 Vinyl Welding Rods for Conductive and Static Dissipative Vinyl Tile

- Vinyl Welding Rods Dimensions; Vinyl Welding Rods are 0.160" (4 mm) in diameter and packaged in 400 linear foot rolls
- Vinyl Welding Rods Ordering Calculations;
  - 24" x 24" Tiles; The total square feet of tile divided by 400 equals the number of rolls of vinyl welding rods required
  - 36" x 36" Tiles; The total square feet of tile divided by 600 equals the number of rolls of vinyl welding rods required
- Available Colors; Matching Vinyl Welding Rods for all standard tile colors are available
- Custom Color Vinyl Welding Rod is available

### 4. TECHNICAL DATA

**ASTM F 1700** - Specification for Solid Vinyl Tile; Class I, Type A; Federal Specification SS-T-312B, Type III

**ASTM F 150** - Electrical Resistance;

- Conductive,  $2.5 \times 10^4$  to  $1 \times 10^6$
- Static Dissipative,  $1 \times 10^6$  to  $1 \times 10^8$
- UL779 (UL Listed No. 22L9), ANSI/ESD S7.1-2005, NFPA 99

**Federal Standard Test Method 101C, Method 4046(101c)** - Static Decay; Conductive and Static Dissipative Passes, 5000 volts to 0 volts is < 0.01 second

**AATCC 134** - Static Propensity; Passes

- Conductive is < 5 volts with conductive shoes
- Static Dissipative is < 20 with conductive shoes

**ASTM E 648 (NFPA 253)** - Critical Radiant Flux; Class 1, > 1.00 W/cm<sup>2</sup>

**ASTM E 662 (NFPA 258)** - Specific Optical Density of Smoke Generated by Solid Materials; Passes, < 450

**ASTM E 84 (NFPA 255)** - Surface Burning Characteristics, Flamespread;

- Standard formula, Class B (26 – 75)
- Class A formula, Class A (0 – 25)

**UL 992** - Surface Flame Propagation; Passes, < 2.0

**ASTM F 925** - Resistance to Chemicals; Passes, List of chemicals available

**ASTM D 570** - Water Absorption of Plastics; < 0.15%

**ASTM D 2047** - Static Coefficient of Friction (Slip Resistance); > 0.50, < 0.70; dry, flat surface using neolite sensors

**ASTM F 970** - Static Load Limit; 250 PSI; Modified ASTM F 970, 2000 PSI

**ASTM F 1515** - Light Stability; Passes

**ASTM E 595** - Outgassing; Excellent, Test results available

**FED-STD-209E** - Airborne Particulate Cleanliness; Excellent, Test results available

**EN 425** - Castor Chair Test; Passes

**ASTM F 510** - Abrasion Resistance; Excellent

**FMVSS 302, Title 49, Part 571** - Flammability of Interior Materials; Passes

**ASTM G 21** - Determining Resistance of Synthetic Polymeric Materials to Fungi; Excellent Resistance