

Anti-static square fabric

◆ Product Description

The anti-static grid fabric is composed of 98% polyester and 2% carbon fiber conductive yarn, offering a variety of colors to suit different application scenarios. The fabric features a 5mm-wide grid pattern, creating a neat and orderly design. It delivers excellent anti-static performance, with a surface resistance between 10^6 and 10^7 ohms, effectively dissipating static electricity and ensuring comfortable wear. This fabric is widely used in industries with strict electrostatic control requirements, such as electronics, healthcare, and chemical manufacturing, for producing workwear and protective gear, providing reliable electrostatic protection across various sectors.



- Stable anti-static performance
- Functional Square Design
- Durable & Abrasion-Resistant
- Safe for Hazardous Environments
- Breathable & Comfortable

◆ Product Structure

Fabric is composed of polyester fibers and conductive fibers

- The fabric consists of polyester and conductive fibers. Polyester fibers are high in strength, good in elasticity, stiff, wrinkle-resistant, easy to wash and quick to dry, yet poor in moisture absorption and prone to generating static electricity. Combining with conductive fibers can solve the static problem. Usually, conductive fibers such as carbon fiber conductive yarns are mixed at a ratio of 1% - 5% to form a conductive network in the fabric to conduct away static electricity. With the square-weave process, warp and weft yarns interweave to form a 5mm×5mm square pattern. The warp and weft density is reasonably set according to usage and performance requirements to make the fabric denser, improving wear resistance and the evenness of antistatic performance. The fabric surface is subjected to antistatic treatment. Through chemical treatment or coating technology, an antistatic film is generated to reduce surface resistance and strengthen antistatic, dust-proof and dirt-proof properties.

◆ Typical Applications

- Antistatic square-check fabric is vital in key sectors. In electronics workshops, its conductive network quickly gets rid of human static, protecting sensitive components for stable product production. In medical ORs, equipment covers of this fabric stop static from disturbing medical devices and the sterile space, ensuring surgical safety. In petrochemical areas, it's used for workers' gear and to cover pipes and containers. It conducts static to the ground, preventing static build-up and spark-related risks, thus creating a safe production environment.

◆ Typical Product Data and Physical Properties

Material: 98% polyester, 2% carbon fiber conductive yarn

Color: A variety of colors are available.

Weaving process: square, width 5mm

Gram weight: $107g \pm 3g/m^2$

Width: 150cm

Warp and weft density: 63*32/CM

Surface resistance: $10E6 - 7\Omega$

Tearing strength: Longitudinal $\geq 50N$, Transverse $\geq 45N$

Air permeability: $\geq 200L/m^2/s$

Availability:

Item#	Specifications	Color	Packing Method
1.1.03.01.0261	LJ-1501	White	100m/pack
1.1.03.01.0221	LJ-1502	Yellow	100m/pack
1.1.03.01.0264	LJ-1504	Sky blue	100m/pack
1.1.03.01.0265	LJ-1507	Mid-blue	100m/pack
1.1.03.01.0267	LJ-1512	Green	100m/pack
1.1.03.01.0248	LJ-1516	Navy blue	100m/pack

◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application-related questions.

◆ Note:

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