

Nickel/Copper

Polyester Ripstop

Nickel/Copper Polyester Ripstop is a unique fabric, manufactured using a patented, proprietary technology. The base layer is highly conductive copper, with an outer layer of nickel for corrosion resistance. This technology combines the properties of these metals with the light weight, drapability, strength, and attractive appearance of a polyester ripstop fabric. Nickel/Copper Polyester Ripstop offers excellent surface conductivity, shielding effectiveness, and corrosion resistance for a variety of applications.

Physical Properties

Property	Units	Value	Advantage
Substrate		Polyester Ripstop	Flexible, Breathable
Metal		Nickel/Copper	Highly Conductive, Corrosion Resistant
Basis Weight	oz./yd. ² g/m. ²	2.3 – 3.3 78-112	Light Weight
Thickness, (nominal)	Inches microns	0.007 178	Thin and Flexible
Metal Weight	oz./yd. ² g/m. ²	0.70 – 1.30 24 - 44	Excellent Electrical Properties
Max Short Duration Temperature		210°C	Allows Thermal Processing

Electrical Properties

Property	Units	Value
Surface Resistivity (ASTM F390)	ohms/square	≤ 0.07
Far-field Shielding Effectiveness (typical)		
At 100 MHz	dB	80
At 1 GHz	dB	70

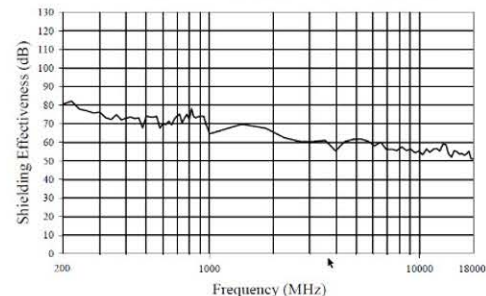
Mechanical Properties

Property	Units	Value
Tensile Strength CD/MD (ASTM D5035)	Lb./in	60/65
Elongation, MD (ASTM D5035)		27%

-Typical values for greige fabric.
-Cross Machine/Machine Direction

ELECTRON® Nickel/Copper Polyester Ripstop can be used in many different configurations to protect against EMI/RFI and ESD in a variety of applications. Typical applications include: enclosures, cables, tapes, and grounding.

Ni/Cu Polyester RipStop (3055-233)
Shielding Effectiveness per MIL-STD-285 (Mod.)



NI/CU POLYESTER NONWOVEN FABRIC

Nickel/Copper Polyester Nonwoven is a unique fabric, manufactured using a patented, proprietary technology. This technology combines highly conductive copper and corrosion resistant nickel with the lightweight, flexibility and loft of a nonwoven. Nickel/Copper Polyester Nonwoven offers excellent surface conductivity, shielding effectiveness and corrosion resistance.

Nickel/Copper Polyester Nonwoven can be used in many different configurations to protect against EMI/RFI and ESD for a variety of applications and environments. Typical for a variety of applications and environments. Typical applications include: architectural shielding, gaskets, tapes, shielding materials, and ribbon.

FEATURES

- RoHS compliant
- Halogen-free per IEC -61249-2-21 standard
- Low surface resistivity of < 0.07 Ω/□ provides excellent conductivity
- Shielding effectiveness of >90 dB across a wide spectrum of frequencies

MARKETS

- Cabinet applications
- Plasma TV
- Medical equipment
- Servers
- Printers
- Laptop computers

