



Nickel/Copper Polyester Taffeta

Flectron® Nickel/Copper Polyester Taffeta is a unique fabric, manufactured using a patented, proprietary technology. This technology combines highly conductive copper and corrosion resistant nickel with the lightweight, flexibility, conformability, strength and uniform appearance of a woven. Nickel/Copper Polyester Taffeta offers excellent surface conductivity, shielding effectiveness, and reflectivity for a variety of applications.

Product No: 3035-213 Shielding Effectiveness(ASTM D4935)



Physical Properties

Property	Units	Value	Advantage
Substrate		Polyester Taffeta	Flexible, Breathable, Conformable
Metal		Ni/Cu	Highly Conductive, Corrosion Resistant
Basis Weight	oz./yd. ² g/m. ²	2.2 – 3.1 75– 105	Light Weight
Thickness, (nominal) (ASTM D1777)	Inches microns	0.0045 114	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	75
At 1 GHz	dB	82
At 3 GHz	dB	76

Mechanical Properties

Property	Units	Value
Tensile Strength		
CD/MD [◇]	lb./in	50/75
(ASTM D5035)	N/100mm	0.7
Elongation, MD (ASTM D5035)		27%

ⁿ Typical values for greige fabric.
[◇] Cross Machine Direction/Machine Direction

FLECTRON® Nickel/ Copper Polyester Taffeta can be used in many different configurations to protect against EMI/RFI for a variety of applications and environments. Typical applications include: enclosures, curtains, gaskets, cable wrap, tapes, shielding, laminates, and grounding.