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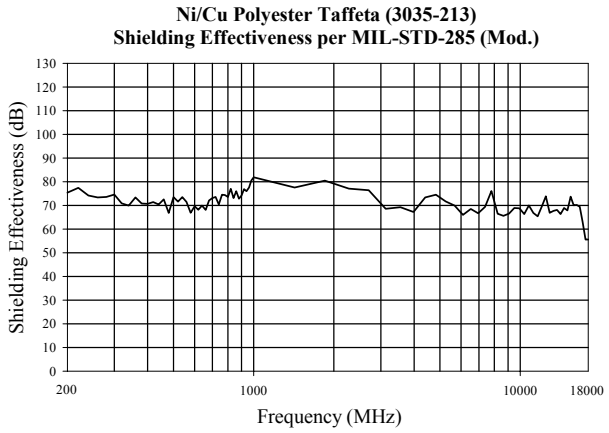
Nickel/Copper Polyester Taffeta

Product No.: 3035-213

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.



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	0.006 152	Thin and Flexible
Metal Weight	oz./yd.^{2} g/m.^{2}	0.60 – 1.05 20-36	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	80

Mechanical Properties

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

[fi] 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.

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