

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.

	Physical Properties				
	<u>Property</u> ubstrate	<u>Units</u>	<u>Value</u> Polyester Taffeta	<u>Advantage</u> Flexible, Breathable, Conformable	
М	etal		Ni/Cu	Highly Conductive, Corrosion Resistant	
Ba	asis Weight	oz./yd.² g/m.²	2.2 – 3.1 75– 105	Light Weight	
(n (A	nickness, ominal) \STM 1777)	Inches microns	0.0045 114	Thin and Flexible	
	etal Weight	oz./yd. ² g/m. ²	0.70 – 1.30 24-44	Excellent Electrical Properties	
D	ax Short uration emperature		210°C	Allows Thermal Processing	



Property	<u>Units</u>	<u>Value</u>
Surface Resistivity (ASTM F390)	ohms/square	<u><</u> 0.07
Far-field Shielding	Effectiveness	(typical)
At 100 MHz	dB	75
At 1 GHz	dB	82
At 3 GHz	dB	76

Med	Mechanical Properties				
Property	<u>Units</u>	<u>Value fi</u>			
Tensile Strength CD/MD ◊ (ASTM D5035)	lb./in N/100mm	50/75 0.7			
Elongation, MD		27%			
(ASTM D5035) ^{fi} Typical values for greige ^o Cross 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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