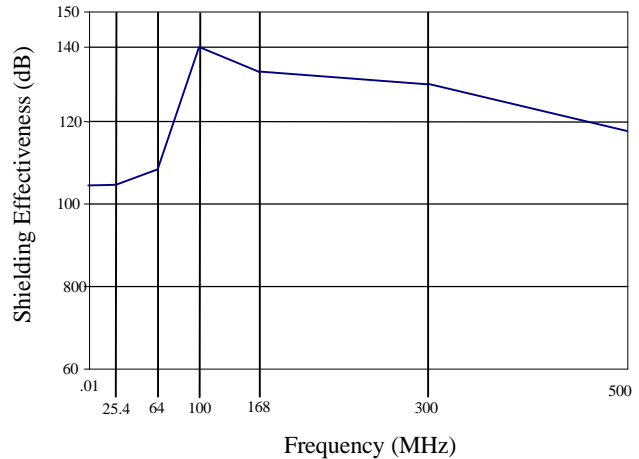




MRI Fabric for EMI & RFI Shielded Enclosures

Laird Technologies' Nickel/Copper Polyester Nonwoven Fabric is a unique shielding material manufactured using a patented, proprietary technology. The base layer is highly conductive copper, with an outer layer of nickel for corrosion resistance. Nickel/Copper Polyester Nonwoven Fabric offers excellent surface conductivity, shielding effectiveness, and corrosion resistance for MRI shielding applications.

Ni/Cu Polyester Nonwoven (3027-217)
Shielding Effectiveness per MIL-STD-285 (Mod.)



Physical Properties

Property	Units	Value	Advantage
Substrate		Polyester Nonwoven	Flexible, Breathable
Metal		Ni/Cu	Corrosion Resistant Highly Conductive
Basis Weight	oz./yd. ² g/m. ²	1.8 – 3.0 61 – 102	Light Weight
Thickness, (nominal) (ASTM D1777)	Inches microns	0.017 432	Provides excellent shielding
Metal Weight	oz./yd. ² g/m. ²	0.58 – 1.40 20 -47	Excellent Electrical Properties
Max Short Duration Temperature		210°C	Allows Thermal Processing

Electrical Properties

Property	Units	Value ^{fi}
Surface Resistivity (ASTM F390)	ohms/square	≤ 0.07
Far-field Shielding Effectiveness (typical)		
At 1 MHz	dB	104+
At 25.4 MHz	dB	104+
At 64 MHz	dB	107+
At 100 MHz	dB	140+
At 168 MHz	dB	133+
At 500 MHz	dB	118+

Mechanical Properties

Property	Units	Value ^{fi}
Tensile Strength CMD/MD [◇] (ASTM D5035)	lb./in N/100mm	7.5/18.5 128/324
Elongation, MD (ASTM D5035)		9%

^{fi} Typical values for greige fabric.

[◇] Cross Machine Direction/Machine Direction

Product No.: 3027-217

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