

## 6521 broadband Microwave Absorber Felt Material

### Product Summary

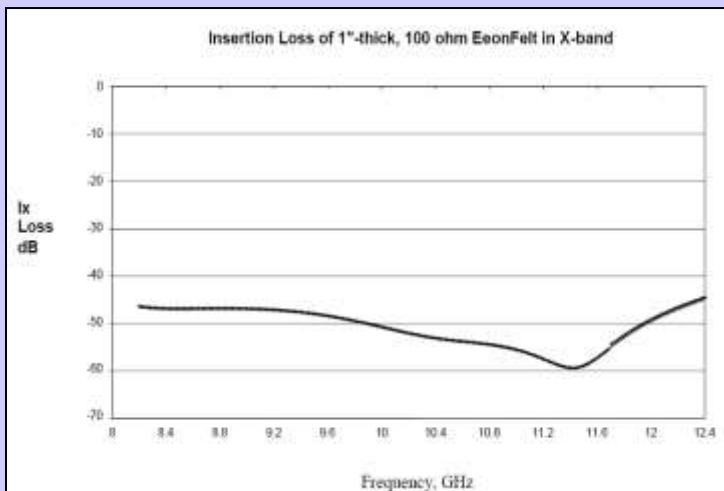
6521 Conductive Polymer-Coated Polyester Felt with a secondary protective coating. The RF absorbing material can be used in a variety of applications where a volume of space needs to be filled with a resonance dampening and RF absorptive material.

### Product Application

The 6521 material is a thick, very lightweight, flexible, low-cost, RF-absorbing felt that is used for EMI absorption and noise suppression. The dielectric absorbing material reduces reflections and damps electronic cavity resonances, thus reducing EMI emissions and crosstalk in electronic enclosures. It is also useful for adjusting antenna side lobes. This new felt absorber will not emit cyanide gas (HCN) if burned. A flame-retardant coating is applied to meet flame-resistant standards. Available per customer specification, full rolls available up to 27" x 45'.



### Technical Specifications



### Typical Properties and Features

- Color: Black
- Surface resistivity: ~100 ohms/sq (or per customer specification, gradient also possible)
- Thickness: ~1 inch (2.5 cm) (or per customer specification)
- Weight: ~0.19 lb/ft<sup>2</sup> = 2.25 lb/cu ft.
- Dimensions: per customer specification, full rolls currently available up to 27" x 45'

### Applications

- Microwave absorption (insertion loss in X-band shown in figure above)
- EMI shielding, damping resonances
- Antennas - reduce crosstalk and multipath reflections, adjust side lobes

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