## **3M**

# Tape 2191FR

## Nickel on Copper-Plated Polyester Ripstop Fabric with Conductive Acrylic Adhesive

### **Data Sheet**



#### **Product Description**

3M<sup>TM</sup> Tape 2191FR consists of a strong, flexible nickel on copper-plated polyester ripstop fabric backing and a unique electrically conductive pressure-sensitive acrylic adhesive.

- Nickel on copper-plated polyester ripstop woven fabric backing
- Conductive acrylic adhesive
- UL recognized for flame retardancy per UL 510, Product category OANZ2, File 59505
- Supplied on a removable liner for easy handling and die cutting.

Please consult with sales representatives about custom width and length. Standard length is 20M.

#### **Applications**

3M Tape 2191FR can be used in many applications such as grounding and EMI shielding in equipment, components, shielded rooms, etc. The unique metallized fabric backing offers the additional benefits of excellent flexibility and conformability, very light weight, and exceptional strength. The fabric backing also minimizes the possibility of finger laceration.

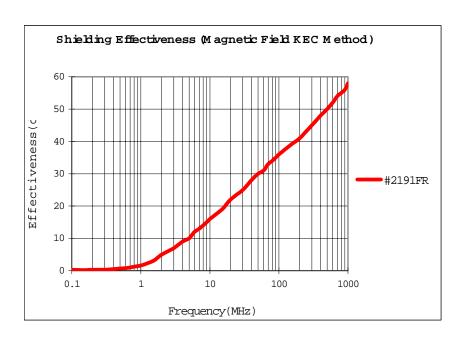
#### **Shielding Effectiveness**

Shielding effectiveness depends on conductivity, permeability, thickness of metalization, adhesive strength, degree of contact, smoothness of application surface, strength and frequency of EMI signal, etc. However, using standard tests and fixtures, it is possible to determine a value for the attenuation. (See chart below.)

Properties	Typical Value
Backing thickness <sup>1</sup>	5.3 mil (0.135mm)
Total thickness (backing plus adhesive) <sup>1</sup>	5.5 mil (0.14 mm)
Breaking strength <sup>1</sup>	108 N/cm
Adhesion to steel <sup>1</sup>	2.1 N/cm
Electrical resistance through adhesive <sup>2</sup>	$0.003 \ \Omega/25 \ \text{mm}^2$

<sup>\*</sup> Foot notes: 1. ASTM-D-1000 Test method

2. 3M Test method 1.



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#### **Important Notice**

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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