



# EMI Absorbers AB-2000 Series

## Data Sheet

### Product Description

3M™ EMI Absorbers AB-2000 Series consist of a thin, flexible backing made of silicone rubber and magnetic materials, with an acrylic pressure-sensitive adhesive.

- Silicone rubber with magnetic filler
- Acrylic pressure-sensitive adhesive
- Supplied on a removable liner for easy handling and die cutting

3M EMI Absorbers AB-2000 Series are available in standard sizes and custom widths and lengths. Standard size is 300mm x 210mm sheet

### Applications

3M EMI Absorbers AB-2000 Series are typically used for applications requiring electromagnetic

absorbing. These absorbers can sufficiently suppress radiated noise from electrical devices in the broadband frequency range common in such products as mobile equipment, cellular phones, amplifiers, etc.

### Attenuation (S11 Reflection Loss)

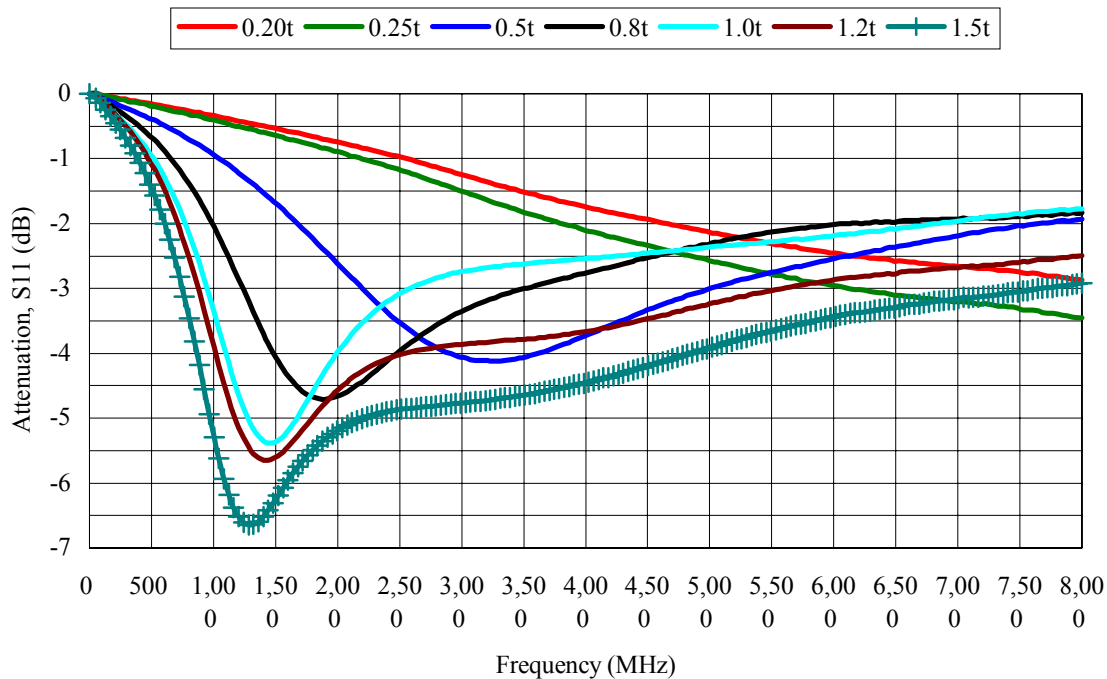
Many factors determine the true attenuation of an electromagnetic absorbing and shielding material, including type and thickness of the conductive layers, adhesive strength, degree of contact, smoothness of application surface, frequency of the EMI signal, etc. 3M EMI Absorbers AB-2000 Series typical attenuation ranges are shown in the chart below.

### Typical Values

Properties	Typical Value	
Type of Backing	Silicone rubber with magnetic filler	
Type of Adhesive	Acrylic adhesive (0.1 mm)	
Thickness	Total Thickness	Backing Thickness
- AB-2020	0.27 mm	0.20 mm
- AB-2025	0.32 mm	0.25 mm
- AB-2050	0.58 mm	0.50 mm
- AB-2080	0.88 mm	0.80 mm
- AB-2100	1.08 mm	1.0 mm
- AB-2120	1.28 mm	1.2 mm
- AB-2150	1.58 mm	1.5 mm
Breaking strength <sup>1</sup>	6 kg <sub>f</sub> /25mm (15 lb/in)	
Adhesion strength <sup>1</sup>	1000 g <sub>f</sub> /25mm (35 oz/in)	
Attenuation (S11 Reflection Loss) <sup>2</sup>	Refer to attached chart	

Foot notes: 1. ASTM-D-1000 Test Method.  
2. 3M/S Test Method.

## Attenuation Characteristics



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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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