

# Botron B4123 Technical Data Sheet



## Overview:

Botron's Type Z vinyl ESD table mats feature a unique three layer design, provide excellent electricals, and ergonomic comfort that only a foam back material can provide. It exceeds both EOS/ESD and Department of Defense requirements. Available in Light Blue or Gray rolls, and pre-cut table mats with hardware.

## PROPERTIES

## SPECIFICATIONS

Material:	.120" Thick Vinyl and Foam Dissipative Vinyl Top Layer Conductive Carbon Middle Layer Dissipative Foam Backing
Meets Standards:	ANSI EOS/ESD S4.1 RTG Fed Std 101 Method 4046
Electricals:	Top Layer $5 \times 10^7$ Conductive carbon layer $10^4$ Dissipative foam backing $10^8$ RTT $5.3 \times 10^7$ - $6 \times 10^8$ Ohms RTG $6.1 \times 10^6$ - $5 \times 10^8$ Ohms Charge Decay Time 5000 volts to 50v <0.01 Seconds
Colors:	Light Blue, Gray

## AVAILABLE APPLICATIONS

40' runners  
Standard and Custom Cut Table Mats

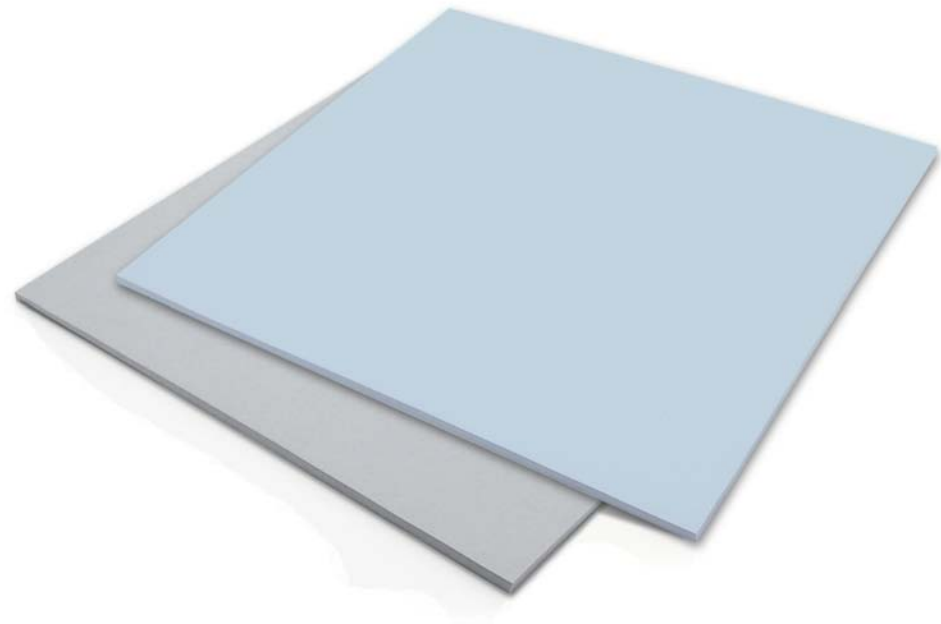
**FINAL TEST**<sup>MR</sup>

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## Product Notes and Features

- Attractive Light Blue and Gray Colors
- Ergonomic Three Layer Cushioned Design
- Superior Electricals
- Cost Effective
- Buried Conductive Layer
- Non-skid Backing
- Compatible with Constant Monitors
- Lightweight and Easy to Cut to Size
- Lead-free RoHS Compliant



## INSTALLATION

1. Remove mat from bag.
2. Attach 10' common point ground B9702 to 3/8" snap on mat.
3. Connect opposite end of wire to ground.
4. Check with your facility people for building ground.

## GROUNDING

All pre-cut mats come with attached snap and one B9703 common point ground.

The B9703, when properly set up, will ground the mat and provide ground points for two workers via standard banana jack. For grounding rolls please see hardware (each mat will need a snap and ground to be effective).

## TESTING GUIDELINES

Botron recommends testing ESD mats with the following test equipment: B8582, B8572, B8563, B8560, BSRM6, BSRM10.

Using two 5lbs. weights, placing them approximately 18" apart, conduct the test according to the test equipment which you are using.

Conduct this test to achieve a reading for RTG (resistance to ground) and RTT (resistance top to top) respectively.

When using the BSRM6 and BSRM10, simply place on top of surface of mat and hold down test button to achieve a surface resistance reading.

\*Please note, it is recommended to read the testing guidelines provided with the ESD Tester you are using.

## PART NUMBERS

### Light Blue ESD Mat

B4123 2' x 3' 3 layer blue mat w/snap and ground  
B4124 2' x 4' 3 layer blue mat w/snap and ground  
B4125 2' x 5' 3 layer blue mat w/snap and ground  
B41304 30' x 4' 3 layer blue mat w/snap and ground

B41240 2' x 40' blue 3 layer roll  
B41340 3' x 40' blue 3 layer roll  
B41440 4' x 40' blue 3 layer roll  
B413040 30" x 40' blue 3 layer roll

### Gray ESD Mat

B4623 2' x 3' 3 layer gray mat w/snap and ground  
B4624 2' x 4' 3 layer gray mat w/snap and ground  
B4625 2' x 5' 3 layer gray mat w/snap and ground  
B46304 30" x 4' 3 layer gray mat w/snap and ground

B46250 2' x 50' gray 3 layer roll  
B46350 3' x 50' gray 3 layer roll  
B46450 4' x 50' gray 3 layer roll  
B463050 30" x 50' gray 3 layer roll

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**Disclaimer.** All statements of technical information are believed to be true and are based upon tests we believe to be reliable. The proper use and application for this product must be the responsibility of the user. The statements herein shall have no force or effect.