



## ESD TABLE MAT SELECTION GUIDE

### HOW ESD TABLE MATS WORK

A static control mat provides a path to ground for charge on items placed on the mat. Electrically insulative items will not allow their charge to transfer to ground. ESD mats are an integral part of an ESD program.

### HOW TO TEST ESD MATS

RTG is the resistance from one point on the mats surface to the mats ground point, and is the fundamental electrical test for a mat. A proper RTG insures that a mat can conduct charge from a point on the surface to the mat ground point. The guideline in ESD STM4.1 for RTG is  $1 \times 10^6$  to  $1 \times 10^9$  ohms. ANSI/ESD S20.20 has an upper limit of  $< 1 \times 10^9$  ohms.

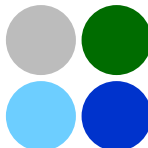
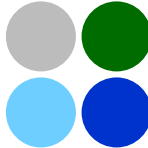
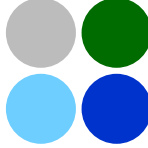






RTT is the resistance from one point on the mats surface to another point. A proper RTT insures the consistency of the mat resistance properties. The ESD STM4.1 guideline for RTT is  $> 1 \times 10^6$  ohms.

Measurements are made with a surface resistance meter such as the 7100.SRM200.K, 7100.3000.MK or SRM500K.

### Our Types of Mats

- MT2500 RUBBER
- MT4500 RUBBER
- MT4000 RUBBER
- MT5500 IDP STAT
- VMA VINYL
- VMB VINYL
- VMC VINYL
- VMD VINYL
- VME VINYL

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MAT SERIES	MATERIAL MAKE UP (THICKNESS)	RESISTANCE CLASSICATION (Point-to-Point)	SURFACE	COLORS	SIZES	SPECIAL FEATURES
<b>MT2500</b>	Two-Layer ESD Rubber 0.06" Thickness	$2 \times 10^6 - 10^8 \Omega$	Smooth		24" x 50' 30" x 50' 36" x 50' 48" x 50' Cut Mats	Dissipative work surface with a conductive back layer.
<b>MT4500</b>	Two-Layer ESD Rubber 0.08" Thickness	$2 \times 10^6 - 10^8 \Omega$	Smooth		24" x 50' 30" x 50' 36" x 50' 48" x 50' Cut Mats	Dissipative work surface with a conductive back layer.
<b>MT4000</b>	Two-Layer ESD Rubber 0.08" Thickness	$2 \times 10^6 - 10^8 \Omega$	Textured		24" x 40' 30" x 40' 36" x 40' 48" x 40' Cut Mats	Dissipative work surface with a conductive back layer.
<b>MT5500</b>	TPU Alloy 0.04 mil Thickness	$< 1 \times 10^9 \Omega$	Smooth Transparent		48" x 50' Cut Mats	Inherently static dissipative polymer provides clean & permanent ESD protection
<b>VMA</b>	Vinyl Three Layer 0.094" Thickness	$1 \times 10^7 - 10^8 \Omega$	Kid Grain Emboss Pattern		24" x 50' 30" x 50' 36" x 50' 48" x 50' Cut Mats	Resistant to degradation by acids, reducing agents, detergents, alcohols, etc
<b>VMB</b>	Vinyl Three Layer 0.125" Thickness	$1 \times 10^7 - 10^8 \Omega$	Kid Grain Emboss Pattern		24" x 50' 30" x 50' 36" x 50' 48" x 50' Cut Mats	Resistant to degradation by acids, reducing agents, detergents, alcohols, etc
<b>VMC</b>	Vinyl Homogeneous 0.093" Thickness	$1 \times 10^7 - 10^8 \Omega$	Kid Grain Emboss Pattern		24" x 50' 30" x 50' 36" x 50' 48" x 50' Cut Mats	A homogeneous polymer mix with a controlled static drain and ESD protection
<b>VMD</b>	Vinyl Homogeneous 0.0625" Thickness	$1 \times 10^7 - 10^8 \Omega$	Kid Grain Emboss Pattern		24" x 50' 30" x 50' 36" x 50' 48" x 50' Cut Mats	A homogeneous polymer mix with a controlled static drain and ESD protection
<b>VME</b>	Vinyl Three Layer 0.375" Thickness	$1 \times 10^7 - 10^8 \Omega$	Matte Finish		24" x 60' 30" x 60' 36" x 60' Cut Mats	Closed-cell foam absorbs the shock and impacts