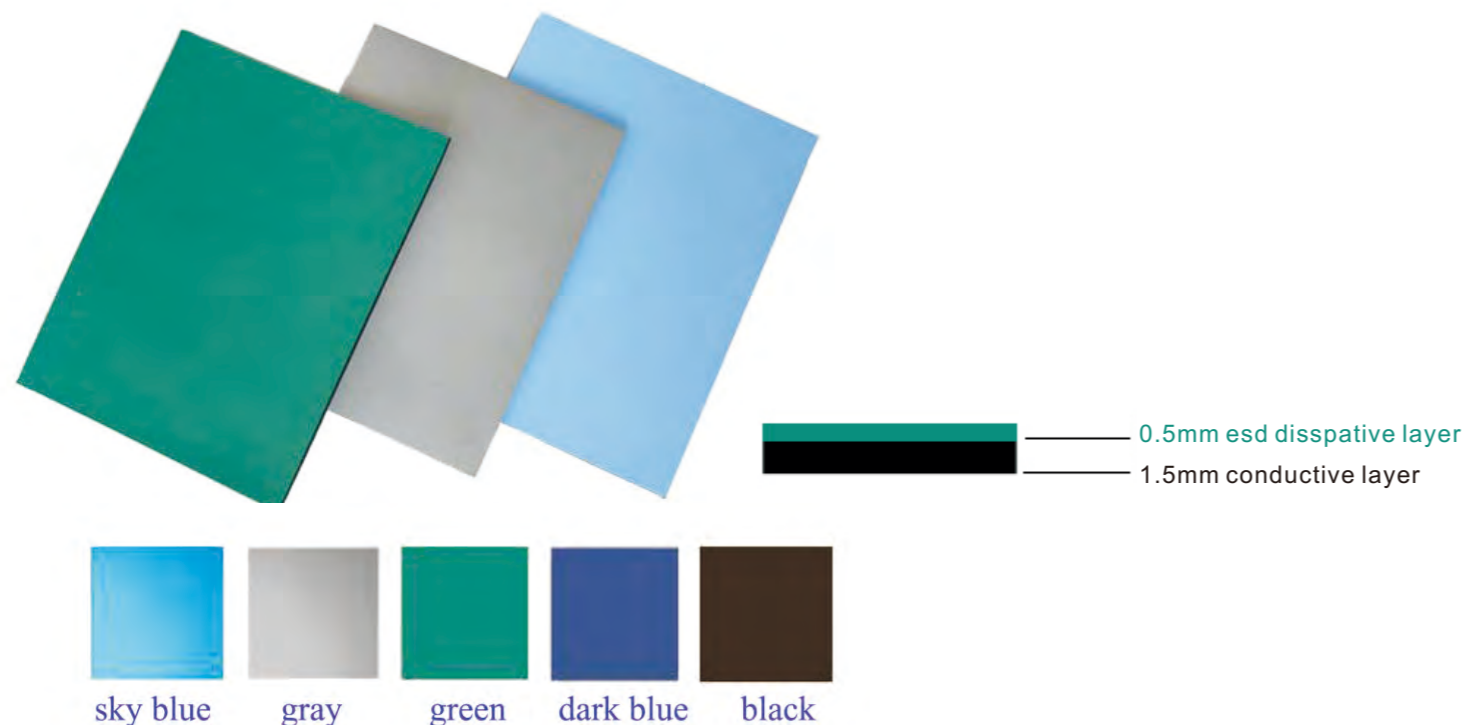




ESD Mat



ES14101 ESD mat

ESD dissipative mats are designed to harmlessly drain charges from personnel, esd boxes, components and etc. It is lie flat-will not cart and not affected by humidity and superior resistance to abrasion, chemicals and heat resistant, easy to clean and maintain.

ESD rubber mat or conductive ground mats should be laid out in the workshops and advanced laboratories for microelectronic industries such as electronic semi-conduct devices, electronic computers, electronic communication equipment and integrated circuits and etc, to eliminate damages caused by static electricity. When ESD rubber mat (ground mats) are laid out and grounded, the working surface will discharge the static electricity of human bodies so that a near-equipotential can be maintained for ESD tweezers, tools, utensils and instruments, through which human bodies contact the working table and static sensitive devices(SSD) are free from broadband interference produced by static discharging such as triboelectrification etc. In this way, electrostatic protection is realized. ESD rubber mat are mainly made of anti-static(conductive) and static-dissipative materials, and synthetic rubber. The surface layer is a 0.5mm thick static-dissipative layer. The bottom layer is a 1.5mm conductive layer. Usually 2mm thick double-layer structure is used.

Our antistatic table mat/floor mat does not contain sulphur, which easily reacts with other substances to cause decoloring of the products and bring harm to huaman body.

Technical parameter

Performance index of antistatic table mat (floor mat)



Antistatic table mat(floor mat)			Size*	Color*
Antistatic layer (green layer, sponge layer)	Surface resistance	$10^6-10^9\Omega$	1.0mx10mx2mm(T) 1.2mx10mx2mm(T)	Green Grey Light blue Blue
	Function static potential V	<100V		
Conductive layer (black bottom)	Surface resistance	$\leq 10^6\Omega$		
	Funciton static potential V	<60V		
Static voltage attenuation period	5000 - 500V	<1.9S		
Flame retardation	GB4609-84, FV-0 (less than 10S)			
Volume resistance	$10^7-10^{10}\Omega\text{cm}$			

*Above sizes & colors are standard, customization available.

Physical performance index of antistatic table mat(floor mat)

Description	Test reference	Results
Tensile strength	GB 1040	3.6Mpa
Fracture elongation	GB 1040	188%
Tear elongation	GB/T 529	20.6KN/m
Rebound elasticity (the specimen is laminated with 6 layers of sheets)	GB/T 1681	14%
Impact embrittlement temperature (no cut)	GB 5470	No damage at -25°C
Permanent compression change rate, 70°CX22h, compression 25%	GB 10654	17.9%
Hot air ageing	Tensile strength change rate	+8.0%
	Fracture elongation change rate	-3.8%
	Weight loss on heating	1.08%

Test according to national standards: GB1040, GB/T 529, GB/T 1671, GB5470, GB10654 and GB/T 7141.