

Qualification Report

ANSI/ESD STM4.1 Worksurfaces

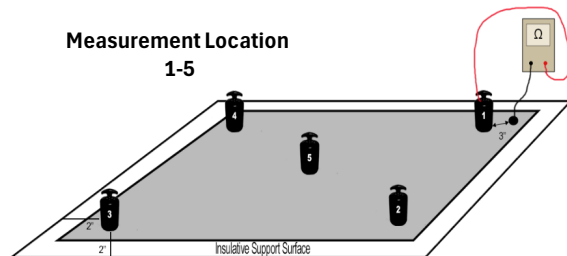
MT4500 Series Two Layer ESD Rubber

MT4524, MT4530, MT4536, MT4548, MT Cut Mats

Environment
Temperature: 68F
Humidity: Moderate 48%/Low 12%
Specimen #: 3
Conducted By: AS

Test Equipment Used
Manufacturer: Wolfgang Warmbier
Model: Metriso 3000
Serial: ZD0031

Measurement	Measurement Location	Low 12% Humidity			Moderate 48% Humidity			Required Limit
		#1	#2	#3	#1	#2	#3	
Resistance to Groundable Point (Rgp)	1	1.77×10^7	1.02×10^7	1.07×10^7	1.30×10^7	8.17×10^6	1.18×10^7	$< 1.0 \times 10^9 \Omega$
	2	1.67×10^7	9.54×10^6	1.11×10^7	1.51×10^7	1.03×10^7	1.15×10^7	
	3	1.26×10^7	1.04×10^7	1.09×10^7	1.49×10^7	9.48×10^6	1.30×10^7	
	4	1.35×10^7	8.29×10^6	1.29×10^7	1.48×10^7	8.50×10^6	1.12×10^7	
	5	1.31×10^7	7.93×10^6	1.20×10^7	1.02×10^7	1.16×10^7	1.04×10^7	
Resistance point-to-point (Rpp)	A	2.70×10^7	2.46×10^7	2.79×10^7	2.67×10^7	2.17×10^7	1.96×10^7	$< 1.0 \times 10^9 \Omega$
	B	2.72×10^7	2.62×10^7	2.28×10^7	2.78×10^7	2.45×10^7	2.15×10^7	
	C	3.16×10^7	2.21×10^7	1.84×10^7	2.79×10^7	2.31×10^7	1.74×10^7	
	D	2.71×10^7	2.34×10^7	2.06×10^7	2.81×10^7	2.38×10^7	2.34×10^7	



Measurement Results		Low 12%RH	Moderate 48%RH
Resistance to Groundable Point (Rgp)	Minimum	7.93×10^6	8.17×10^6
	Maximum	1.77×10^7	1.51×10^7
	Average	1.18×10^7	1.16×10^7
Resistance point-to-point (Rpp)	Minimum	1.84×10^7	1.74×10^7
	Maximum	3.16×10^7	2.67×10^7
	Average	2.49×10^7	2.38×10^7

