

Qualification Report

ANSI/ESD STM4.1 Worksurfaces

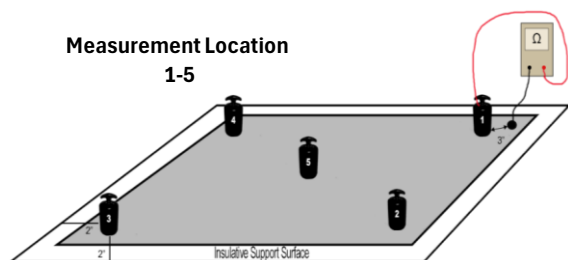
MT4000 Series Two Layer Textured ESD Rubber

MTT2440, MTT3040, MTT3640, MTT4840, MTT 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	1.40×10^6	1.35×10^6	6.30×10^5	6.76×10^5	1.10×10^6	6.18×10^5	$< 1.0 \times 10^9 \Omega$
	2	1.90×10^6	1.45×10^6	9.84×10^5	6.38×10^5	1.33×10^6	9.24×10^5	
	3	1.80×10^6	1.41×10^6	9.31×10^5	6.14×10^5	1.13×10^6	6.67×10^5	
	4	1.44×10^6	1.12×10^6	6.44×10^5	7.05×10^5	1.18×10^6	8.70×10^5	
	5	1.31×10^6	1.23×10^6	6.26×10^5	9.17×10^5	1.64×10^6	9.28×10^5	
Resistance point-to-point (Rpp)	A	1.98×10^6	1.77×10^6	1.98×10^6	1.88×10^6	1.81×10^6	2.05×10^6	$< 1.0 \times 10^9 \Omega$
	B	2.08×10^6	1.95×10^6	1.89×10^6	1.83×10^6	1.88×10^6	1.81×10^6	
	C	1.94×10^6	1.79×10^6	1.86×10^6	1.94×10^6	1.96×10^6	1.87×10^6	
	D	1.95×10^6	1.91×10^6	2.03×10^6	1.81×10^6	1.84×10^6	1.78×10^6	



Measurement Results		Low 12%RH	Moderate 48%RH
Resistance to Groundable Point (Rgp)	Minimum	6.26×10^5	6.14×10^5
	Maximum	1.90×10^6	1.64×10^6
	Average	1.22×10^6	9.29×10^5
Resistance point-to-point (Rpp)	Minimum	1.77×10^6	1.78×10^6
	Maximum	2.08×10^6	2.05×10^6
	Average	1.93×10^6	1.87×10^6

