

Qualification Report

ANSI/ESD STM4.1 Worksurfaces

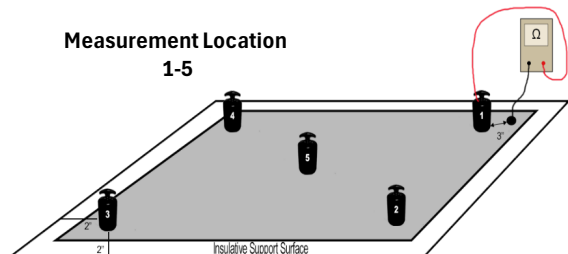
VMA Series Three Layer Vinyl

Part Numbers: VMA2450, VMA3050, VMA3650, VMA4850, VMA Cut Mats

Environment
Temperature: 68F
Humidity: Moderate 50%/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	1.40×10^7	1.30×10^7	3.59×10^7	1.25×10^7	1.27×10^7	4.18×10^7	$< 1.0 \times 10^9 \Omega$
	2	1.32×10^7	1.35×10^7	3.50×10^7	1.48×10^7	1.46×10^7	3.50×10^7	
	3	1.75×10^7	1.35×10^7	3.95×10^7	1.34×10^7	1.88×10^7	3.04×10^7	
	4	1.39×10^7	1.19×10^7	3.09×10^7	2.01×10^7	3.52×10^7	3.78×10^7	
	5	1.52×10^7	1.53×10^7	3.12×10^7	1.48×10^7	3.04×10^7	2.38×10^7	
Resistance point-to-point (Rpp)	A	2.20×10^7	2.49×10^7	6.68×10^7	7.27×10^7	7.17×10^7	5.95×10^7	$< 1.0 \times 10^9 \Omega$
	B	1.54×10^7	2.29×10^7	7.74×10^7	7.10×10^7	7.82×10^7	1.55×10^7	
	C	2.80×10^7	5.34×10^7	7.37×10^7	7.20×10^7	8.42×10^7	5.83×10^7	
	D	3.50×10^7	4.07×10^7	6.50×10^7	6.66×10^7	8.52×10^7	5.89×10^7	



Measurement Results		Low 12%RH	Moderate 48%RH
Resistance to Groundable Point (Rgp)	Minimum	1.19×10^7	1.25×10^7
	Maximum	3.95×10^7	4.18×10^7
	Average	2.09×10^7	2.37×10^7
Resistance point-to-point (Rpp)	Minimum	1.54×10^7	1.55×10^7
	Maximum	7.74×10^7	7.27×10^7
	Average	4.38×10^7	6.62×10^7

