

# Laboratory Tests Comparing ShadowFX and Overly Conductive Carpet

## ShadowFX with Dissipative Backing ESD S7.1 Tests (Flooring Resistance – OHMs)

Resistance	12% RH to Groundable Point (100 Volts)		Resistance	Point to Point (100 Volts)
	Point A	Point B		
1	1.51E+06	9.84E+05	–	–
2	1.47E+06	2.22E+06	1	1.44E+07
3	7.45E+06	1.51E+06	2	6.87E+06
4	1.17E+06	9.59E+05	3	1.34E+07
5	2.18E+06	8.68E+05	4	7.67E+06
6	7.66E+06	7.70E+06	5	1.19E+07
<b>Average</b>	<b>3.57E+06</b>	<b>2.37E+06</b>	<b>Average</b>	<b>1.08E+07</b>
<b>Maximum</b>	<b>7.66E+06</b>	<b>7.70E+06</b>	<b>Maximum</b>	<b>1.44E+07</b>
<b>Minimum</b>	<b>1.17E+06</b>	<b>8.68E+05</b>	<b>Minimum</b>	<b>6.87E+06</b>
<b>Std. Dev.</b>	<b>3.10E+06</b>	<b>2.66E+06</b>	<b>Std. Dev.</b>	<b>3.40E+06</b>

## Recycled Conductive-Backed Tiles ESD S7.1 Tests (Flooring Resistance – OHMs)

Resistance	12% RH to Groundable Point (10 Volts)		Resistance	Point to Point (10 Volts)
	Point A	Point B		
1	1.61E+04	1.63E+04	–	–
2	1.10E+04	1.18E+04	1	2.06E+04
3	1.63E+04	1.50E+04	2	2.84E+06
4	1.16E+04	2.08E+04	3	3.01E+04
5	9.67E+03	1.41E+04	4	2.67E+04
6	1.29E+04	2.10E+04	5	2.28E+04
<b>Average</b>	<b>1.29E+04</b>	<b>1.65E+04</b>	<b>Average</b>	<b>5.88E+05</b>
<b>Maximum</b>	<b>1.63E+04</b>	<b>2.10E+04</b>	<b>Maximum</b>	<b>2.84E+06</b>
<b>Minimum</b>	<b>9.67E+03</b>	<b>1.18E+04</b>	<b>Minimum</b>	<b>2.06E+04</b>
<b>Std. Dev.</b>	<b>2.74E+03</b>	<b>3.71E+03</b>	<b>Std. Dev.</b>	<b>1.26E+06</b>

## ShadowFX AATCC 134 Tests – Charge Generation on a Person Wearing Neolite Soles (ShadowFX Carpet Tiles)

Floor	12% RH Charge Generation Walk	Grounded Voltage (Peak Voltage) Scuff
	1	313
2	200	-510
3	254	-610
4	-320	-550
5	-304	-600
6	-375	-600
7	-233	-540
8	-504	-610
9	-499	-570
<b>Average</b>	<b>-163</b>	<b>-576</b>
<b>Maximum</b>	<b>313</b>	<b>-510</b>
<b>Minimum</b>	<b>-504</b>	<b>-610</b>
<b>Std. Dev.</b>	<b>327</b>	<b>35</b>

## Recycled Conductive Backing AATCC 134 Tests – Charge Generation on a Person Wearing Neolite Soles (Conductive Carpet Tiles)

Floor	12% RH Charge Generation Walk	Grounded Voltage (Peak Voltage) Scuff
	1	-1123
2	-993	-1000
3	-1134	-870
4	-903	-940
5	-910	-900
6	-855	-910
7	-874	-880
8	-941	-910
9	-962	-930
<b>Average</b>	<b>-966</b>	<b>-904</b>
<b>Maximum</b>	<b>-855</b>	<b>-800</b>
<b>Minimum</b>	<b>-1134</b>	<b>-1000</b>
<b>Std. Dev.</b>	<b>101</b>	<b>55</b>

## ShadowFX ESD STM97.2 Tests – Voltage with Person Wearing Adidas Tennis Shoes (Blue Carpet Tiles)

Floor	12% RH Charge Generation Walk	Grounded Voltage (Peak Voltage) Scuff
	1	1096
2	823	-1100
3	881	-1050
4	905	-950
5	753	-1100
6	856	-970
7	898	-1080
8	907	-1000
9	842	-990
<b>Average</b>	<b>885</b>	<b>-1033</b>
<b>Maximum</b>	<b>1096</b>	<b>-950</b>
<b>Minimum</b>	<b>753</b>	<b>-1100</b>
<b>Std. Dev.</b>	<b>93</b>	<b>57</b>

## Recycled Conductive Backing ESD STM97.2 Tests – Voltage with Person Wearing Adidas Tennis Shoes (Conductive Carpet Tiles)

Floor	12% RH Charge Generation Walk	Grounded Voltage (Peak Voltage) Scuff
	1	-1270
2	-1071	-1480
3	-1275	-1590
4	-1228	-1380
5	-1000	-1470
6	-1070	-1470
7	-1095	-1380
8	-1013	-1500
9	-1079	-1510
<b>Average</b>	<b>-1122</b>	<b>-1476</b>
<b>Maximum</b>	<b>-1000</b>	<b>-1380</b>
<b>Minimum</b>	<b>-1275</b>	<b>-1590</b>
<b>Std. Dev.</b>	<b>107</b>	<b>65</b>