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SUMMARY

Testing of material samples were performed to ANSI/ESD STM11.11 and 11.12 to determine Surface and Volume resistance of the material. A qty of 6 samples were conditioned to the requirements of the test methods. Each was then tested per the referenced test methods with data recorded and shown below. Results showed a range on Surface Resistance of $10^4 - 10^8$ Ohms. Range for Volume Resistance is $10^4 - 10^9$ Ohms.

MATERIAL:

LD30 Foam Sample Thickness: 0.125"

TEST CONDITIONS:

Qty 6 specimens @ 12.7% RH, 23°C, 55 hours conditioning. Qty 6 specimens @ 50.8% RH, 23°C, 57 hours conditioning. Test Voltage (@ Upper Resistance): 100 Volts Electrification Period (@ Upper Resistance): 8-10 seconds

TEST DATA

TABLE 1: SURFACE RESISTANCE DATA

	Surface Resistance (Ohms) @ 12.7% RH, 23°C, 55 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Max	Mean	
Test Method	1	2	3	4	5	6	IVIIII	IVIAN	Ivicali	
ANSI/ESD	6.06 x	3.42 x	4.59 x	8.77 x	7.74 x	9.11 x	8.77 x	7.74 x	3.93 x	
STM 11.11	10 ⁸	10 ⁸	10 ⁸	10 ⁷	10 ⁸	10 ⁷	10 ⁷	10 ⁸	10 ⁸	

	Surface Resistance (Ohms) @ 50.8% RH, 23°C, 57 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Max	Mean	
Test Method	1	2	3	4	5	6		Max	mean	
ANSI/ESD	7.59 x	5.27 x	2.32 x	5.05 x	1.04 x	4.33 x	4.33 x	2.32 x	9.31 x	
STM 11.11	10 ⁴	10 ⁴	10 ⁵	10 ⁴	10 ⁵	104	104	10 ⁵	10 ⁴	

TEST METHOD/S:

- ANSI/ESD STM11.11-2022
- ANSI/ESD STM11.12-2021

STANDARDS:

- PROSTAT PRS-801
 RESISTANCE METER (CAL DATE 1-2023)
- PROSTAT PRF-911 CONCENTRIC RING (CAL DATE 2-2023)
- ALL STANDARDS ON I YEAR CAL CYCLE.

TABLE 2: VOLUME RESISTANCE DATA

	Volume Resistance (Ohms) @ 12.7% RH, 23°C, 55 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Мах	Mean	
Test Method	1	2	3	4	5	6		IVIAX	wican	
ANSI/ESD	8.14 x	2.93 x	4.06 x	3.03 x	5.57 x	2.13 x	3.03 x	2.93 x	1.19 x	
STM 11.12	10 ⁸	10 ⁹	10 ⁸	10 ⁸	10 ⁸	10 ⁹	10 ⁸	10 ⁹	10 ⁹	

	Volume Resistance (Ohms) @ 50.8% RH, 23°C, 57 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Max	Mean	
Test Method	1	2	3	4	5	6		Ινίαλ	Iviean	
ANSI/ESD	6.22 x	1.39 x	7.02 x	4.81 x	6.69 x	2.42 x	4.81 x	2.42 x	1.05 x	
STM 11.12	10 ⁴	10 ⁵	10 ⁴	10 ⁴	10 ⁴	10 ⁵	10 ⁴	10 ⁵	10 ⁵	