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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 $10^3 - 10^5$ Ohms. Range for Volume Resistance is $10^4 - 10^5$ Ohms.

MATERIAL:

Corstat Sealed Sample Thickness: 0.125"

TEST CONDITIONS:

Qty 6 specimens @ 12.4% RH, 23°C, 60 hours conditioning. Qty 6 specimens @ 50.3% RH, 23°C, 54 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) @ 12.4% RH, 23°C, 60 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Max	Mean	
Test Method	1	2	3	4	5	6	IVIIII	Ινίαλ	IVICAL	
ANSI/ESD	2.37 x	5.14 x	7.27 x	1.19 x	8.21 x	6.18 x	5.14 x	8.21 x	3.20 x	
STM 11.11	10 ⁵	10 ⁴	10 ⁴	10 ⁵	10 ⁵	10 ⁵	10 ⁴	10 ⁵	10 ⁵	

	Surface Resistance (Ohms) @ 50.3% RH, 23°C, 54 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Max	Mean	
Test Method	1	2	3	4	5	6				
ANSI/ESD	7.19 x	4.42 x	6.96 x	8.37 x	2.53 x	5.91 x	6.96 x	8.37 x	4.85 x	
STM 11.11	104	104	10 ³	104	104	104	10 ³	104	104	

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) @ 12.4% RH, 23°C, 60 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Мах	Mean	
Test Method	1	2	3	4	5	6	IVIIII	IVIAA	Ivicali	
ANSI/ESD	7.45 x	2.08 x	8.13 x	3.22 x	5.71 x	9.04 x	7.31 x	6.44 x	5.08 x	
STM 11.12	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁴	10 ⁵	10 ⁴	10 ⁵	10 ⁵	

	Volume Resistance (Ohms) @ 50.3% RH, 23°C, 54 hours conditioning									
	Sample	Sample	Sample	Sample	Sample	Sample	Min	Max	Mean	
Test Method	1	2	3	4	5	6		Ινίαλ	Iviean	
ANSI/ESD	4.29 x	8.81 x	8.06 x	2.27 x	4.11 x	3.02 x	3.02 x	2.27 x	8.50 x	
STM 11.12	10 ⁴	10 ⁴	10 ⁴	10 ⁵	10 ⁴	10 ⁴	10 ⁴	10 ⁵	10 ⁴	