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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 10^5 – 10^5 Ohms. Range for Volume Resistance is 10^5 – 10^5 Ohms.

MATERIAL:

24 STY PC Sample Thickness: 0.125"

TEST CONDITIONS:

Qty 6 specimens @ 12.9% RH, 22.9°C, 60 hours conditioning. Qty 6 specimens @ 50.5% RH, 23.3°C, 55 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) @ 12.9% RH, 22.9°C, 60 hours conditioning									
Test Method ANSI/ESD	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean	
STM 11.11	4.4 x 10 ⁵	3.8 x 10 ⁵	3.7 x 10 ⁵	4.1 x 10 ⁵	2.5 x 10⁵	2.5 x 10⁵	2.5 x 10⁵	4.4 x 10 ⁵	3.5 x 10⁵	Э

	Surface Resistance (Ohms) @ 50.5% RH, 23.3°C, 55 hours conditioning									
Test Method	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean	
ANSI/ESD STM 11.11	4.1 x 10 ⁵	2.8 x 10 ⁵	2.0 x 10 ⁵	3.2 x 10 ⁵	2.0 x 10 ⁵	1.8 x 10 ⁵	1.8 x 10 ⁵	4.1 x 10 ⁵	2.65 x 10⁵	

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) @ 12.9% RH, 22.9°C, 60 hours conditioning									
Test Method	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean	
ANSI/ESD STM 11.12	3.2 x 10 ⁵	4.0 x 10 ⁵	2.3 x 10 ⁵	2.2 x 10 ⁵	2.4 x 10 ⁵	2.2 x 10⁵	2.2 x 10 ⁵	4.0 x 10 ⁵	2.72 x 10⁵	

		Volume Resistance (Ohms) @ 50.5% RH, 23.3°C, 55 hours conditioning									
Test Method	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean		
ANSI/ESD STM 11.12	2.8 x 10 ⁵	3.8 x 10 ⁵	1.7 x 10 ⁵	1.4 x 10 ⁵	1.5 x 10 ⁵	1.3 x 10 ⁵	1.3 x 10 ⁵	3.8 x 10 ⁵	2.08 x 10⁵	1 1	