



LONESTAR ELECTROSTATIC SOLUTIONS

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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 Ohms. Range for Volume Resistance is 10^3 Ohms.

MATERIAL:

EcoPak

TEST CONDITIONS:

Qty 6 specimens @ 12.5% RH, 22.8°C, 50 hours conditioning.

Qty 6 specimens @ 50.2% RH, 22.4°C, 49 hours conditioning.

Test Voltage (@ Upper Resistance): 100 Volts

Electrification Period (@ Upper Resistance): 8-10 seconds

TEST DATA

TEST METHOD/S:

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

STANDARDS:

- PROSTAT PRS-801
RESISTANCE METER (CAL
DATE 8-2025)
- PROSTAT PRF-911
CONCENTRIC RING (CAL
DATE 2-2025)
- ALL STANDARDS ON 1
YEAR CAL CYCLE.

TABLE 1: SURFACE RESISTANCE DATA

Test Method	Surface Resistance (Ohms) @ 12.5% RH, 22.8°C, 50 hours conditioning								
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean
	8.7×10^3	8.5×10^3	8.7×10^3	8.2×10^3	8.1×10^3	8.3×10^3	8.1×10^3	8.7×10^3	8.42×10^3

Test Method	Surface Resistance (Ohms) @ 50.2% RH, 22.4°C, 49 hours conditioning								
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean
	8.2×10^3	8.8×10^3	7.8×10^3	8.0×10^3	7.7×10^3	8.2×10^3	7.8×10^3	8.8×10^3	8.12×10^3

TABLE 2: VOLUME RESISTANCE DATA

Test Method	Volume Resistance (Ohms) @ 12.5% RH, 22.8°C, 50 hours conditioning								
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean
	7.7 x 10 ³	7.7 x 10 ³	7.9 x 10 ³	7.6 x 10 ³	7.7 x 10 ³	7.5 x 10 ³	7.5 x 10 ³	7.9 x 10 ³	7.68 x 10 ³

Test Method	Volume Resistance (Ohms) @ 50.2% RH, 22.4°C, 49 hours conditioning								
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Min	Max	Mean
	7.5 x 10 ³	7.5 x 10 ³	7.7 x 10 ³	7.9 x 10 ³	7.5 x 10 ³	7.4 x 10 ³	7.4 x 10 ³	7.9 x 10 ³	7.58 x 10 ³