

Conclusion: KRETUS Poly Conductive Flooring met ANSI/ESD S20.20 qualification testing for Commercial, Space & Defense ESD Protocols.

Test sample submission: Delivered in Excellent Condition. The ESD Testing Plan constituted preconditioning of said specimens for 72 hours minimum and required testing at 12%±3%RH; 73°F±5°F. It should be noted that all prototype samples were planar (flat) and free of warpage, well marked and labeled.

RMV employed the use of a Prostat 801B and 2-NFPA 5-Lb Electrodes calibrated with a Reference Calibration Unit. A Trek 158 Charge Plate SN: 1031 and 3247 was employed.

The testing plan was as follows:

ESD Test Plan

1.0 Floor Resistance (RTG & R_{pp} or R_{tt})

ANSI/ESD STM7.1 (Ω) Limit: <1.0 x 10⁹ Ω

2.0 Resistance in Combination with a Person, Footwear and Flooring

ANSI/ESD STM97.1(Ω) Limit: <1.0 x 10⁹ Ω

3.0 Voltage in Combination with a Person, Flooring and Footwear

ANSI/ESD STM97.2(Ω) Limit: <±100 volts

4.0 Electrostatic Decay

MIL-STD-3010C, Method 4046 Limit: 2.0 seconds Max.

PASSED



In Short, the flooring falls into the conductive range between 2.5 x 10⁴ Ω to <1.0 x 10⁶ Ω and within 2 orders of magnitude and PASSED the ANSI/ESD STM7.1 testing. Resistance of the floor measurements in combination with a person (ANSI/ESD STM97.1) and footwear measured <1.0 x 10⁹ Ω and PASSED this series of testing. The voltage in combination with a person, flooring and footwear per ANSI/ESD STM97.2 produced voltages at <±10 volts for a PASS at <±100 volts. This floor product PASSED this test and is very low charging.