Electrostatic Dissipative Laminate as per ESD S4.1

Electrostatic dissipative worktable resistance properties are measured using a Meggermeter. ESD Association standard S4.1 recommends using a measuring apparatus capable of delivering 10 (±1) volts and 100 (±10) volts using two 5 pound electrodes.

Resistance to Ground (or Groundable Point) measures the total resistance between the surface through the ground cord. According to ESD/ESD - S4.1, resistance to ground should be measured using the apparatus listed above with one electrode placed on the surface and the other terminal connected to a groundable point. The resistance should measure between 10⁷ and 10⁸ ohms.

Point to Point Resistance (or Surface Resistance) is the resistance measured between two points on a static control surface. According to ESD/ESD - S4.1, using the apparatus listed above, the electrodes should be spaced ten inches apart and at least two inches from the edge of the surface. The resistance should measure ≥ 1M. Surface Resistivity is a test used to measure how freely charges flow through a material (measured in Ω / square). It is generally used to measure items that are not typically grounded directly.

Point to Point Resistance (or Surface Resistance) is the resistance measured between two points on a static control surface. According to ESD/ESD - S4.1, using the apparatus listed above, the electrodes should be spaced ten inches apart and at least two inches from the edge of the surface and on the same surface. The resistance should measure ≥ 1M. Surface Resistivity is a test used to measure how freely charges flow through a material (measured in Ω / square). It is generally used to measure items that are not typically grounded directly.

![Image of Electrostatic Dissipative Laminate and measurement setup](image-url)

Figure 2: Resistance Point to Point

25.4 x 61 cm (10 x 24") specimens
Resistance to Ground (or Groundable Point) measures the total resistance between the surface through the ground cord. According to EOS/ESD - S4.1, resistance to ground should be measured using the apparatus listed above with one electrode placed on the surface and the other terminal connected to a groundable point on the same surface. The resistance should measure between $10^5$ and $10^8$ ohms.

![Diagram](image)

Figure 3: Resistance-to-Groundable Point - New Installations