



5100 Series Static Dissipative 3-Ply Vinyl Mat Material Specifications

5100 Series is a high-performance soft static-dissipative matting for use as a work surface and floor and mat runner. This product style features a unique multi-layer construction. **Top Surface** – a proprietary vinyl blend, engineered to be semi-conductive, non-tacky, color stable, durable and dirt/stain resistant. **Fabric Sub-Layer** – provides dimensional stability, along with superior physical strength. **Buried Conductive Layer** – the primary path to ground within the mat structure, but engineered to be easily accessible only through the ground snap fastener to minimize shock hazards and alternative, unintended ground paths. **Vinyl Foam Back** – provides a resilient, non-skid back. Additionally, the foam is engineered to provide soft feel to the mat structure while being highly durable with superior lay-flat properties.

5100 Series is engineered to meet the requirements of **MIL W-87893, WORKSTATION, ELECTROSTATIC DISTARGE (ESD) CONTROL, Type II work surface, cushioned**. The unique construction provides the same resistance-to-ground measurement from any point on the material.

Stock Colors: **Soft Blue, Chocolate Brown**

Standard Roll Sizes: **24" x 50', 30" x 50'**

Thickness (Minimum) ASTM D 1055: **0.075 Inches (Minimum)**

Weight: **.37 lbs./ sq. ft.**

Resistance R_{TT} -Surface, Top-to-Top (EOS/ESD S4)

@ 10 volts, 12% RH (R_{TT}) $10^7 - 10^8$ ohms

@ 100 volts, 50% RH (R_{TT}) $10^6 - 10^7$ ohms

Resistance T_{TG} – Surface Top-to-Ground Point (EOS-ESD S4)

@ 10 volts, 12% RH (R_{TG}) $10^7 - 10^8$ ohms

@ 100 volts, 50% RH (R_{TG}) $10^6 - 10^7$ ohms

Resistance - Volume (ASTM D 257) $<10^{10}$ ohm-cm