

TDI ESD Chairs Resistance to Groundable Point Test Positions

ESD SPECIFICATIONS:

Surface Resistivity

- Fabric: Grade III ESD Fabric - 4.5×10^6 Average (BS6524: 1984)
- Vinyl: Grade III ESD Vinyl - 10^8 Ohms/Sq or lower (ASTM D-257)

Rate of Decay - 5000 Volts down to 500 Volts

- Fabric: Grade III ESD Fabric - .20 Seconds (apex.)
- Vinyl: Grade III ESD Vinyl - .35 Seconds (apex.)



Figure 1 - Setup for 1 Wheel Measurement; Other 4 Wheels on Insulative Support Surface

RH: 24.4%

Temp: 23.8C

Vinyl Chair Test Results

1 Wheel	A	B	C	D	E	
Seat	2.6E7	2.9E7	3.2E7	3.4E7	3.5E7	(ohms)
Foot Rest	4.7E2	8.5E3	5.0E2	3.9E3	3.8E3	
Back	9.8E7	1.1E8	8.1E7	6.6E7	7.5E7	

2 Wheels	E-A	A-B	B-C	C-D	D-E	
Seat	3.5E7	3.5E7	3.6E7	3.7E7	3.6E7	(ohms)



Figure 2 - Identifying the Wheels (A-E)

ESD Chair Features:

- CASTERS Standard: Conductive Die Cast Steel Dual Wheel Caster with Brake
Optional: Conductive Die Cast Steel Dual Wheel Caster without Brake
- Spring loaded clip in back upright makes connection between back and control.
- Footring - Metal to metal cylinder contact.
- Testing - All chairs are tested for continuous path to ground from seat and back before shipment.