Technical Data Sheet

SEALEZE® Static Control Brush with Aluminum Holder
Product No. SFB115BL100CF

Construction:
Filament: 100% conductive nylon filament, 0.010” diameter, with chemically bonded carbon
Channel and Core Wire: galvanized steel
Holder: clear anodized aluminum

Static Decay:
Target: Rate of decay shall be less than 2.0 seconds
Found: +1000v to +100v in 0.010 seconds
-1000v to –100v in 0.010 seconds
Method: Modification of EIA 541, Appendix F

Surface Resistance of Brush Fibers:
ESDS541: Conductive Range <1.0 x 10^4 ohms
Found: Average: 1.5783 x 10^2 ohms @ 1.0 volts
Method: ANSI/ESD STM11.11-2001

Volume Resistance of Brush Fibers:
Target: Conductive Range <1.0 x 10^4 ohms-cm
Found: Average: 3.8851 x 10^3 ohms-cm @ 1.0 volts
Method: ASTM D991

Two-Point Resistance of Brush Fibers:
ESDS541: Conductive Range <1.0 x 10^4 ohms
Found: Average: 1.5179 x 10^2 ohms @ 1.0 volts
Method: ANSI/ESD STM11.13-Draft Standard

Two-Point Resistance of Mounting Bracket:
ESDS541: Static Dissipative >1.0 x 10^4 - <1.0 x 10^{11} ohms
Found: Average: 5.4101 x 10^9 ohms @ 100 volts
Method: ANSI/ESD STM11.13-Draft Standard

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Continuity from Mounting Bracket to Brush Fibers:
Target: Conductive Range <1.0 x 10^4 ohms (No Standard)
Found: Average: 2.70 x 10^1 ohms @ 1.0 volts
Method: Prostat 801 Resistance System with 2 Leads

Tribo Charge Generation (Highest Peak Voltage):
Requirement: No Established Standard
Found: 10,240 volts to +1,720 volts @ 20%RH
10,240 volts to -1,455 volts @ 50%RH
Reference: Static Sensor Placement near Substrate after Contact[1]

ESD Inside Shelf Life (Storage without use):
Requirement: 5 Years
Found: Indefinite
Reference: Contains no antistats

Note: [1]Results may vary from location to location. ESDS541 = ANSI/ESD S.541-2003 Form: ESD2-05/9/04

Since different levels of ESD protection are required for different devices, all users should perform their own tests to prove the suitability of the static control brush material for specific applications. User assumes all liability regarding damage or loss arising from use of products. User shall determine the applications of these materials for the intended application(s), and assumes total liability in the event of aforementioned damages.