

# ELECTRASTAT Type 180

## Interlocking ESD Floor Mats

### DATA SHEET

- ▶ Mission Critical Static Control
- ▶ Anti-Fatigue, Outstanding Ergonomics
- ▶ Build to ANY Length
- ▶ Indestructible, Permanent static conductivity
- ▶ Robust and Easy to Keep Clean
- ▶ Dependable Performance PASSES ESD audits
- ▶ Outstanding Electrical properties that, when used with ESD heel straps, may be used as a replacement for ESD wrist straps. Type 180 is chemical resistant and provides static control properties that rival ESD tiles at a fraction of their installed cost.

ElectraStat Type 180 features outstanding static control in concert with indestructible mechanical integrity. Type 180 is NOT reliant on humidity for static conductivity and falls in the preferred range of electrical resistance for EASY compliance to the latest ANSI ESD S20.20 standards.



ElectraStat 180 is a static conductive material for ultimate static charge decay and ultimate static control. Type 180 features end pieces and center sections that interlock for an ESD safe floor runner of ANY length. Type 180 is provided with a diamond plate top surface over an air cell shock absorbing underside. ElectraStat 180 is designed to eliminate static generation from standing technicians and easily meets the stringent new S 20.20 standards.

ElectraStat Type 180 is recommended for use with foot traffic and standing technicians only. ElectraStat is not recommended for use with chair casters or chairs. All outside edges are ramped.

ElectraStat Type 180 must be attached to an electrical ground

using United SCP Part Number 115-AS Floor Mat Ground Cords (included free with the order). ElectraStat Type 180 is designed for use on all hard surface flooring and for covering thin glued down carpeting.

#### PHYSICAL PROPERTIES:

Material Composition: Rubber

Part Number: 180-AS

THICKNESS: 1/2 of an inch

WIDTH & LENGTH: 28 inches wide x 30 inches long

COLORS: Black

AVAILABILITY: Center Sections and End Pieces

#### ELECTRICAL PROPERTIES:

PTP PER ESD 7.1,  $>1.0E04$   $<5.5E06$

RTG PER ESD 7.1,  $>1.0E04$   $<5.5E06$

97.1:  $<1.0E09$  PASS ANSI ESD S20.20-2014

Charge generation per 97.2:  $<100$  Volts PASS ANSI ESD S20.20-2014

## PHYSICAL SPECIFICATIONS

Weight per Tile	12 pounds
Color	Black
Hardness ISO 868 (°sh)	65 +/-5
Hardness DIN 53505-A (°sh)	65 +/-5
Hardness ASTM D2240 (°sh)	65 +/-5
Density ISO 2781 (g/cm3)	1.35
Density DIN 53479 (g/cm3)	+/- 0.03
Tensile strength ISO 37 (psi)	1420
Tensile strength ASTM D412	+/- 426
Elongation ISO 37 (%)	400
Elongation ASTM D412 (%)	+/- 100
Abrasion ISO 4649 (mm3)	<200
Abrasion DIN 53504 (mm3)	<200
Abrasion ASTM D1630-83 (mm3)	<200

## CHEMICAL RESISTANCE

P = poor    F = Fair    G = Good

ACETALDEHYDE	40% sol.	liquid	F	F
ACETIC ACID	60% sol.	liquid	F	F
ACETIC ANHYDRIDE		liquid	F	F
ACETONE		liquid	P	P
ALUMINIUM HYDROXYDE		solid	F	F
AMMONIA		liquid/gas	F	F
ANIMAL FATS, GREASES, OILS		solid/liquid	P	P
ANTI-FREEZE (ETHYLENE GLYCOL)		liquid	F	F
BENZENE		liquid	P	P
BLEACH		liquid	F	F
BORIC ACID		liquid	F	F
BRAKE FLUID		liquid	F	F
BROMINE	100 % (dry gas)	gas	P	P
BUTYL ACETATE		liquid	P	P
BUTYL ALCOHOL (BUTANOL)		liquid	P	P
CALCIUM CHLORIDE		solid	F	F
CALCIUM HYDROXYDE		solid	F	F
CARBON TETRACHLORIDE		liquid	F	F
CHLOROFORM		liquid/gas	F	F
CHROMIC ACID		liquid	F	F
COOKING OILS (VEG., OLIVE, ETC)		liquid	P	P
CYCLOHEXANOL		liquid	P	P
CYCLOHEXANONE		liquid	P	P
DIBUTYL PHTALATE		liquid	P	P
DIESEL OIL		liquid	P	P

DIETHYLENE GLYCOL	liquid	P	P
ETHYL ALCOHOL (ETHANOL)	liquid	P	P
FORMALDEHYDE	liquid	F	F
FORMIC ACID	liquid	F	F
FREON 134A	liquid/gas	F	F
GASOLINE (UNLEADED)	liquid	P	P
HYDRAULIC FLUID (PETROLEUM)	liquid	P	P
HYDROCHLORIC ACID 50 % sol	liquid	F	F
HYDROFLUORIC ACID 40 % sol	liquid	F	F
HYDROGEN PEROXYDE	liquid	P	P
ISOPROPYL ALCOHOL (ISOPROPANOL)	liquid		
JET FUEL	liquid	P	P
KERSONE	liquid	P	P
METHYL ALCOHOL (METHANOL)	liquid	P	P
METHYL BENZENE (TOLUENE)	liquid	P	P
METHYL ETHYL KETONE (MEK)	liquid	P	P
METHYLENE CHLORIDE	liquid	P	P
MINERAL OIL	liquid	P	P
MOTOR OIL	liquid	P	P
NITRIC ACID 50 % sol.	liquid	F	F
OCTANE	liquid	P	P
PHENOL	liquid	P	P
PHOSPHORIC ACID 10 % sol.	liquid	F	F
PHOSPHORIC ACID 11 % - 85% sol.	liquid	F	F
PROPYLENE GLYCOL	liquid	P	P
SALT WATER	liquid	G	G
SODIUM HYDROXYDE	liquid	G	G
STYRENE	liquid	G	G
SULFURIC ACID 25 % sol.	liquid	F	F
SULFURIC ACID 26 % 95% sol.	liquid	F	F
TETRAHYDROFURAN (THF)	liquid	P	P
TRANSMISSION FLUIDS	liquid	P	P
TURPENTINE	liquid	P	P
VINEGAR	liquid	F	F
XYLENE	liquid	P	P

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