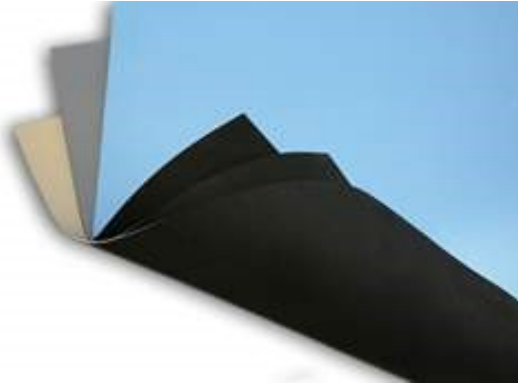




Art. 157CUT ESD RUBBER BENCHMAT CUT

TECHNICAL SHEET # EPA23E
Meet: IEC 61340-5-1



GENERAL

ELME **157CUT** has been designed to provide an effective grounding of the WORKSTATION. The cuts of the materials are designed to fit in the majority of the workstation sizes. Each mat has 10mm male snaps to connect with wristband cord and ground cord.

MAT CUTS FEATURES

• Material: ELME 157 rubber matting, high temperature resistant, double layer • 157 benchmat size: 400X600, 600x900mm, and 600x1200mm (rounded corners cut) • Colours available: grey, blue, beige • The outer packaging is a plastic flexible tube transparent • The 157CUT meet specifications of IEC 61340-5-1:2007 STD.

| | | |
|----------------------------|--|---------------|
| 157 CUT 4060 BLUE | Kit with mat 400x600mm, colour light blue | Weight 690gr |
| 157 CUT 4060 GREY | Kit with mat 400x600mm, colour grey | Weight 690gr |
| 157 CUT 4060 BEIGE | Kit with mat 400x600mm, colour beige | Weight 690gr |
| 157 CUT 6090 BLUE | Kit with mat 600x900mm, colour light blue | Weight 1390gr |
| 157 CUT 6090 GREY | Kit with mat 600x900mm, colour grey | Weight 1390gr |
| 157 CUT 6090 BEIGE | Kit with mat 600x900mm, colour beige | Weight 1390gr |
| 157 CUT 60120 BLUE | Kit with mat 600x1200mm, colour light blue | Weight 1990gr |
| 157 CUT 60120 GREY | Kit with mat 600x1200mm, colour grey | Weight 1990gr |
| 157 CUT 60120 BEIGE | Kit with mat 600x1200mm, colour beige | Weight 1990gr |

GENERAL MATERIAL SPECS

| | |
|-----------------------------------|--|
| STANDARDS | IEC 61340-5-1:2007, ESDA 2020 |
| MATERIAL | synthetic rubber double layer |
| STRUCTURE | - upper layer: coloured static dissipative - bottom layer: black conductive |
| DRAINAGE OF STATIC CHARGES | The static charge passes through the upper static dissipative layer to the lower conductive layer towards the ground. In this way the drainage of the static charges does not involve any sensitive device on the mat. |
| COLOURS AVAILABLE | beige - grey - light blue - green |
| LIGHT REFLECTION | beige 29% DIN 5036 grey 19% DIN 5036 light blue 29% DIN 5036 |
| FLAMMABILITY | unflammable (DIN 51960) |
| SAFETY | no noxious gas emission, no halogens contained |
| HEAT | withstands more than 440°C |
| CLEANING | clean regularly. No residues. |
| RESISTANCE TO OIL | resists to most paraffinic and naphthenic oils |
| CHEMICALS | high resistance to most chemicals (see list) |
| HUMIDITY | no humidity absorption |
| GROUNDING | use 1 Mohm resistor on the ground cord |
| WEIGHT | 2,7 Kg/sqm |
| THICKNESS | 2 mm. |
| ROLLS | - 1,22 X 10m - 12,20m ² - 1,00 X 10m - 10m ² |
| CLEAN ROOM | no particle emission, suitable for clean room usage |
| HARDNESS | 75-80 ShoreA |
| ABRASION | < 200mm ³ |

| | | |
|---|---|---|
| Surface (point to point) re- sistance | NFPA 99 IEC 61340-5-1 EOS/ESD-S4.1 - 1990 100V EOS/ESD-S4.1 1990 10V | 1 x 10**7 - 1 x 10**9 5 x 10**6 - 5 x 10**8 1 x 10**7 - 1 x 10**8 1 x 10**7 - 1 x 10**8 |
| Volume resistance | DIN 51953 | 5 x 10**6 - 5 x 10**8 |
| Resistance to ground | NFPA 99 IEC 61340-5-1 EOS/ESD-S4.1 - 1990 100V EOS/ESD-S4.1 - 1990 10V | 1 x 10**6 - 1 x 10**9 5 x 10**6 - 5 x 10**8 5 x 10**6 - 5 x 10**7 1 x 10**7 - 1 x 10**8 |
| Charge decay | NFPA 99 (5000 to 500V) FTM 101C No. 4046 (5000V to 500V) FTM 101C No. 4046 (5000V to 50V) | < 0,05 sec. 0,009 seconds 0,034 seconds |

| CHEMICALS CONCENTRATION | EXPOSURE PERIOD | | |
|----------------------------------|------------------------|---------------|-----------------|
| | 2 MIN. | 1 HOUR | 24 HOURS |
| according DIN 51958 | | | |
| ACETIC ACID (5%) | NA | NA | NA |
| AMMONIA (10%) | NA | NA | NA |
| SULPHURIC (3%) | NA | NA | NA |
| NITRIC ACID (10%) | NA | NA | AA |
| HIDROCLORIC ACID (10%) | NA | NA | AA |
| SODIUM IDRATE (10%) | NA | NA | AA |
| SODIUM HYPOCHLORITE (10%) | NA | NA | NA |
| SODIUM CARBONATED (SAT.) | NA | NA | NA |
| HYDROGEN PEROXIDE (3%) | NA | NA | NA |
| ETHYL ACHOOL (50%) | NA | NA | NA |
| OIL ASTM 1 | NA | NA | AA |
| OIL ASTM 3 | NA | NA | AA |
| PETROLEUM | NA | NA | AA |
| BLACK PRINTING INK | NA | NA | AA |
| PERCHLOROETHYLEN | NA | NA | AA, HA |
| BEER | NA | NA | NA |
| BUTTER | NA | NA | AA |
| CITRATE ACID | NA | NA | AA |
| COCA-COLA | NA | NA | NA |
| FRUIT JUICE | NA | NA | NA |
| THE | NA | NA | NA |
| COFFEE | NA | NA | AA |

NA = NO ALTERATION

AA = APPEARANCE ALTERATION

HA = HARDNESS ALTERATION

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