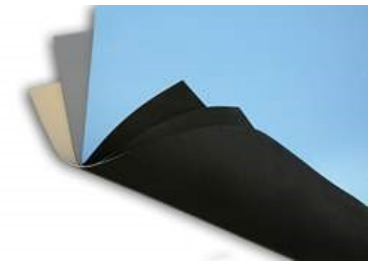
Art. 157KIT
ESD RUBBER BENCHMAT KIT

TECHNICAL SHEET # EPA30E
Meet: IEC 61340-5-1



GENERAL
ELME 157 KIT 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 a separate ground cord with 1 Mohm resistor, and 5mm metal ring termination.

MAT KITS 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 packaging includes the **anti-allergenic ONE TOUCH wristband** set, and **the 601 safety ground cord** (1 MOhm **SAFETY RESISTOR** and ring terminal, 3m long)
- The outer packaging is a plastic flexible tube transparent
- **The 157 KITS meet specifications of IEC 61340-5-1:2007 STD.**

157 KIT 4060 BLUE	Kit with mat 400x600mm, colour light blue	Weight 700gr
157 KIT 4060 GREY	Kit with mat 400x600mm, colour grey	Weight 700gr
157 KIT 4060 BEIGE	Kit with mat 400x600mm, colour beige	Weight 700gr
157 KIT 6090 BLUE	Kit with mat 600x900mm, colour light blue	Weight 1400gr
157 KIT 6090 GREY	Kit with mat 600x900mm, colour grey	Weight 1400gr
157 KIT 6090 BEIGE	Kit with mat 600x900mm, colour beige	Weight 1400gr
157 KIT 60120 BLUE	Kit with mat 600x1200mm, colour light blue	Weight 2000gr
157 KIT 60120 GREY	Kit with mat 600x1200mm, colour grey	Weight 2000gr
157 KIT 60120 BEIGE	Kit with mat 600x1200mm, colour beige	Weight 2000gr

GENERAL MATERIAL SPECS

STANDARDS MET	IEC 61340-5-1:2007, ANSI/ESD 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**
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 500°C**
CLEANING	clean regularly. NO RESIDUES.
RESISTANCE TO OIL	resists to most paraffinic and naphthenic oils
RESISTANCE TO CHEMICALS	high resistance to most chemicals (see list)
RESISTANCE TO HUMIDITY	no humidity absorption
ESD GROUNDING	use 1 Mohm resistor on the ground cord
WEIGHT	2,7 Kg/sqm
THICKNESS	2 mm.
MATERIAL ROLLS	- 1,22 X 10m - 12,20m2 - 1,00 X 10m - 10,00m2
CLEAN ROOM	no particle emission, suitable for clean room usage
HARDNESS	75-80 ShoreA

ESD FEATURES—INTERNATIONAL ESD STANDARDS

Surface (point to point) resistance	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

RESISTANCE TO CHEMICALS

CHEMICALS CONCENTRATION	**EXPOSURE PERIOD**		
according DIN 51958	**2 MIN.**	**1 HOUR**	**24 HOURS**
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

The datas shown above are intended only as general indication of the standard production values. The do not refer to specific production lots. The document has no legal value.

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