

Control & Restraint Mobile Mats Technical File

Firm Foam Filling Specification

Description	Test Standard	Value	Unit
Density	ISO 845	25	Kg/m ³
Tensile strength - MD	ISO 1798	291	kPa
Tensile strength - TD	ISO 1798	237	kPa
Elongation - MD	ISO 1798	100	%
Elongation - TD	ISO 1798	115	%
Compression 10%	ISO 844	20	kPa
Compression 25%	ISO 844	39	kPa
Compression 50%	ISO 844	98	kPa
Compression Set-0.5 Hrs	ISO 1856	14.0	%
Compression Set-24 Hrs	ISO 1856	5.5	%
Water Vapour Transmission	ISO 1663	0.97	g/m ² *24h
Thermal Conductivity at 10C	ASTM C177	0.0390	W/mK
Thermal Conductivity at 40C	ASTM C177	0.0460	W/mK
Flammability	FMVSS302	94	MM/min

PVC Specifications

PVC coated polyester. Flame resistant to the requirements of BS 3408.

Fabric: Woven polyester, Weight - 170 Gm², Yarn - 1100 dtex.

Coating PVC on both sides, Weight 440 Gm²

Property	Method of test	Requirement	Typical result
Total mass	BS EN ISO 2286-2 Method A	580 - 660 Gm ²	610
Adhesion	BS 3424 : Part 7 Method 9B	Face : 65N (min) Rev. : 65N (min)	80 80
Tear strength	BS 3424 : Part 5 Method 7B	Warp : 400N (min) Weft : 375N (min)	450 380
Tensile strength	BS EN ISO 1421 Method 1	Warp : 2500N (min) Weft : 2300N (min)	2800 2500
Fusion	BS 3424 : Part 22 Method 25A	No cracking	Pass
Cold crack	BS 3424 : Part 8 Method 10A	Face : -20OC (max) Rev. : -20OC (max)	-22 -22
Flex resistance	BS EN ISO 7854 Method B	No cracking after 500,000 flexes	Pass
Resistance to water penetration	BS 3424 : Part 26 Method 29C	150cm (min)	200
Flame resistance	BS 3408 Appendix C	BS 3408 Part 3.3.8	Pass

HOOK & LOOP Specification

Composition

Nylon hook and loop tape

Physical Properties

Heat -resistance : Softens at 180 C; melts at 215 - 220 C

Cold- resistance : Usable under -30 C

DURABILITY

Peeling Cycle	Closure strength reduction rate	Change on Loop side
2,000 Times	10% under	No
5,000 Times	15% under	A little
10,000 Times	20% under	Obvious
20,000 Times	30% under	Throughout

CLOSURE STRENGTH

Width	(KG) Lateral tensile strength (Closure length:50mm)	(KG) Vertical peeling strength (Closure length:50mm)
16 mm	4.0 kgs above	150 g. above
20mm	5.5 kgs above	200 g. above
25mm	7.0 kgs above	250 g. above
30mm	9.0 kgs above	300 g. above
38mm	12.5 kgs above	380 g. above
50mm	16.0 kgs above	450 g. above
100mm	32.0 kgs above	800 g above

Description and Dimensions

This mat is capable of dealing with a regular flow of training even if on a daily basis with the minimum of maintenance, and be able to be cleaned regularly with antibacterial products for hygiene purposes without degradation to the surface of the mat.is capable of being used with operational Police footwear i.e. boots Is capable of being hit with force from an Armadillo or similar operational riot shield without ripping or tearing to the surface. It is capable of receiving blows from blunt weapons such as pick axe handles without ripping or tearing to the surface. It meets and exceeds the minimum standards laid down by Sport England for mats used by combat sports such as Judo and Jujitsu for impact absorbing. Has the ability to be lifted from the floor to allow relocation to another venue.

Sizes Available

1m x 50cm x 40mm

1m x 1m x 40mm

2m x 1m x 40mm

Colours Available: Black, Blue, Red, Green



Cleaning Instructions

The PVC surface is resistant to most household stains, mild acids, alkalis and drinks, as they are not absorbed by the vinyl and can be wiped off without any problem or lasting damage.

Some more difficult substances such as ballpoint pen, ink and food colourings should be wiped off immediately to avoid staining.

Clean with warm soapy water applied with a damp soft, cloth followed by a clean water rinse, again applied with a damp soft cloth, **(DO NOT SOAK)**. This will help retain the covers appearance and durability. Strong detergents, solvent cleaners, polishes or patent chemical cleaners should not be used as they are unnecessary and may cause embrittlement and cracking of the material.

In cases where disinfecting is necessary, the surfaces can be cleaned with a 5% solution of bleach in water. This should be used occasionally as excessive use may damage the coated fabric.

Before Use

Risk assessments should be conducted by the trainer to identify the level of training/instruction conducted is appropriate, and that any piece of equipment that is used for that training is suitable and all safe guards are in place.

WARNING, Instructors & students, check this equipment before every use DO NOT use if, Cover, Filling, are worn or damaged, ALWAYS, ensure correct personal protective equipment is used in conjunction with this item, and correct instruction and training procedures followed. This item is not designed to make the user impervious to injury. Serious injury can occur while training with this equipment. After use, store in a clean dry room away from damp & cold conditions. Store flat. Do not store near naked flame or excessive heat such as radiators. Regular cleaning & condition assessments are essential.