

CLEAN PRODUCTS



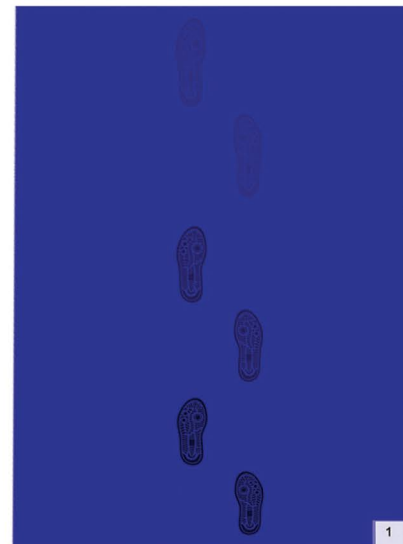
Clean Products consist of several types of products, such as Sticky Mat, Sticky Roller, Protection Film, DCR-Pad, Silicon Rubber Roller, Cleanroom Mop System, Swabs, etc.. All these items are related with cleaning dust and particles, keeping sensitive parts, components, and finished products clean by controlling all kinds of contaminations.

Sticky Mat

Features

- 99.80% of dust collection at several steps on the mats.
- Collected dust on the mats is not migrated.
- Comfortable walking and smooth passing of hand carts.
- Mat can be used with/without the frame.
- Adhesive level can be adjusted on request.
- Antimicrobial sticky mat is available for pharmaceutical, biological and medical areas.
- ESD sticky mat is available for static sensitive areas.
- Thin film sticky mat at economic price is another option.

Item Code	M01C-000
Film Thickness	30 μ m, 35 μ m, 40 μ m, 45 μ m (\pm 5 μ m)
Size	18"×36", 18"×45", 24"×36", 26"×45", 36"×45", etc.
Color	Blue, White, Grey, Green, etc.
Adhesive (g/25 mm)	350 \pm 50 g (surface) – adjustable 700 \pm 50 g (bottom)
Material	Polyethylene (LDPE)
Packing	30 sheets or 60 sheets/mat, 4 mats, 8 mats, 10 mats/case, etc.
Surface Resistance (SM-ESM/EBM)	10e9 ~ 10e11 ohm
Reduction of Bacteria (SM-ABM/EBM)	99.9%



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[Variations]

- **SM-SSM** Standard Sticky Mat
- **SM-TNM** Thin Film Sticky Mat
- **SM-ABM** Antimicrobial Sticky Mat
- **SM-EBM** ESD Antimicrobial Sticky Mat
- **SM-ESM** ESD Sticky Mat

Frame For Sticky Mat

Item Code	M04C-000
Size	600×900 mm, 600×1200 mm, 24"×36", 26"×45"



M04C-000

ESD Washable Sticky Mat



VIDEO



Features

- Service life: 1 year under normal traffic & maintenance
- Homogeneous & excellent ESD properties
- Environment: Friendly & cost-effective
- Fixed by double sided tape

Applications

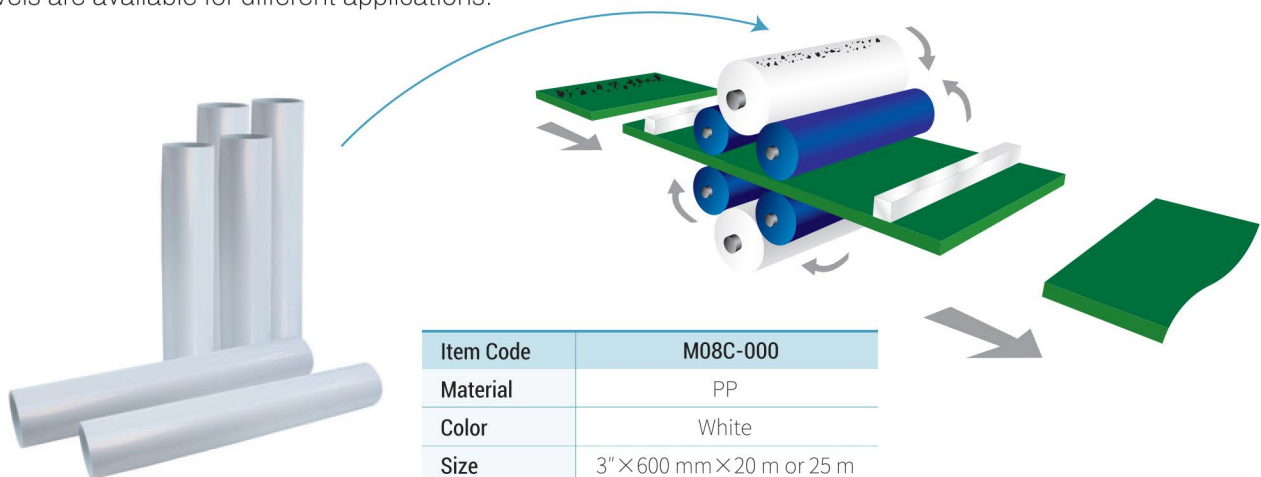
- Entrances & exits of cleanroom labs and manufacturing facilities
- Changing rooms, air showers
- Static sensitive areas

Made in Korea

Item Code	M35C-001-DL	M35C-002-DL	M35C-003-DL	M35C-004-DL	M35C-600-DL
Size (mm)	600×900×0.7(T)	600×1800×0.7(T)	660×1140×0.7(T)	900×3320×0.7(T)	1200×600×0.7(T)
Material	ESD homogeneous sticky PU sheet with surface resistance: 10e7~10e8 ohm				
Upper	PET sheet / double-sided tape				
Bottom					
Side Cover					
Adhesive Level	550 ± 50 gf/25 mm	ESD Fabric Tape with surface resistance: 10e6~10e7 ohm			
		Color	Dark Blue	Packing	5 mats/box

PCB Cleaning Roll

PCB Cleaning Roll usually goes with machine, not with a handle, and this roll is mainly designed to clean PCB. To clean the surface of PCB effectively, perfect flat conditions of the roll is essential. Several different adhesive levels are available for different applications.



Item Code	M08C-000
Material	PP
Color	White
Size	3"×600 mm×20 m or 25 m

PE Sticky Roller & Antistatic PE Sticky Roller



Product	PE Sticky Roller	Antistatic PE Sticky Roller
Item Code	M05C-000	M06C-000
Color	Blue, White, Transparent	
Size	100, 150, 160, 200, 250, 300, 450, 500 mm, etc.	
Length	20 m/roll	
Core	38 mm, 76 mm (3")	

Non-Woven Sticky Roller

Item Code	M07C-000
Color	White
Size	80, 160, 320 mm
Length	10, 20 m/roll
Core	38 mm, 76 mm (3")



Roller Handle



Descriptions	Size			Material			Packing
Item Code	Core dia.	Head	Length	Handle	Frame	Head	
M09C-001	38 mm	8 cm	25 cm	PP	Steel chrome (Cr) Plating	PE	10 pcs/carton (1.4 kg/CTN) Size: 220×350×220 mm(H)
M09C-002	38 mm	16 cm	29 cm				10 pcs/carton (1.7 kg/CTN) Size: 220×350×220 mm(H)
M09C-003	38 mm	16 cm	107 cm				10 pcs/carton (4.5 kg/CTN) Size: 230×1100×230 mm(H)
M09C-004	76.2 mm	32 cm	120 cm				5 pcs/carton


ESD PET Adhesive Film

ESD PET Adhesive Film is a good choice to make ESD surface economically by simply attaching high quality ESD treated adhesive film on the surface on glass, acrylic, PC, etc.. This film can also be used as a protection film for protecting the surfaces or devices from scratches during handling, transportation, etc..



Features

- Good ESD properties on backing side.
- Semi-permanent ESD properties.
- No migration.
- Very low removal adhesive.

Item Code	M13C-000
Constructions	 <ul style="list-style-type: none"> • ESD hard coated PET Film (50, 75, 100 μm) • Silicone Adhesive (20 μm) • Release Film (25 μm)

Physical Properties

Properties	Unit	Value	Test Method
Film	-	ESD hard coated PET	
Adhesive	-	Silicone	
Thickness	μm	50 \pm 2, 75 \pm 2, 100 \pm 2	
		20 \pm 3	
Color	-	Clear	
Adhesion	gf/25 mm	20 \pm 3	ASTM D 1000
Surface Resistance	Ω /25 mm	-	ASTM D 257
		Max. 10e5 ~ 10e8	
Electrostatic Discharge	sec.	Max. 0.1	
Size	mm, m	1000~1200 mm \times 100 m, 200 m	


How to apply the film on the surface effectively

1. Keep the surface free of dust, dirt, moisture, etc.
2. Measure the area where the film is applied and cut the film with extra 1~3 cm.
3. Prepare spray bottle with purity water mixing water-soluble detergent, like shampoo(8~10 drops of detergent for 1 liter water).
4. Spray the prepared water on the surface to make the surface wet and slippery.
5. Remove the releasing sheet from the film and also spray the water on the adhesive area of the film.
6. Attach the film on the surface from the center of the area and press the film out from the center to edge sides smoothly several times by using of a flat and soft scoop until the moisture and the air bubbles are completely removed.
7. Cut the film fitting in the surface perfectly. Please do not press or wipe edge side strongly until the margin of the film is cut-off

- * Please do not press or wipe edge side strongly until the margin of the film is cut-off
- * Please do not use any kinds of chemicals and solvents for cleaning.
- * Use very soft wiper with water soluble detergent for surface cleaning.

ESD PET Film

ESD PET Film is suitable for PCB manufacturing assembly lines for PCB testing, and this film will also be used as a transparent copy film. Antistatic treatment on both surface offers semi-permanent ESD properties.

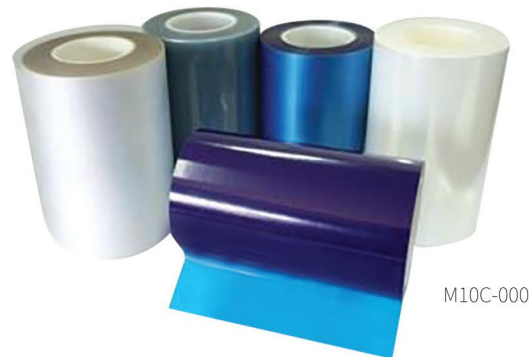
Item Code	M22C-000
Thickness	50 / 75 / 100 μm
Width	1000 mm ~ 1250 mm
Surface Resistance (both sides)	10e5~ 1 0e8 ohm
Constructions	 <ul style="list-style-type: none"> • Antistatic Treatment • PET Film (50 μm, 75 μm, 100 μm) • Antistatic Treatment



Protection Film

Protection Film are widely used in various objects that need surface protection from outer impact, contaminations, scratches, etc. They are used on stainless steel, AL sheet, acrylic sheet, powder coated steel, wooden flooring, PVC sheet and many others.

There are a number of variations in Protection Film, so it is always recommended to contact mecind@mecind.co.kr or person you know for more information.



M10C-000

Item	Material	Adhesive	Thickness (μm)	Adhesive (g/25 mm)	Width (mm)	Length (m)	Elongation (%)	Applications
Surface Protection Film	Polyethylene	Acrylic	40-150	30, 100, 200, 300, 400, 500, 600, 700	100-1800	100-2000	over 250	PVC & Aluminum & ABS Panel, Melanin board, SUS Panel, Fabric Sheet
PE Protection Film	Polyethylene	Acrylic	50, 60, 70, 80, 100, 150	10, 30, 50, 100, 300	100-1800	100-2000		Back Light, Touch Screen, LCD/PD Panel, Optical, Film&Resin Plate
PE Protection Film (Silicone Adhesive)	Polyethylene	Silicone	50-250	1-3	100-1800	100-2000		Glass, Plastics, Touch Screen, Optical Film
PE Protection Film (Urethane Adhesive)	Polyethylene	Urethane	50, 60, 80, 150	10-30	100-1800	100-2000		Back Light Unit, LCD, PC, PMMA, Glass, Diffusion Film, Polarizing Film
Item	Material	Adhesive	Features			Thickness (μm)	Peel Strength (mm)	Re-Adhesive Value (%)
PET Release Liner	Clear PET	Silicone	One-sided/Double-sided coating			22-188	1-180	80-97
Item	Thickness (μm)	Tensile Strength (kg/cm ²)	Elongation (%)	Tear Strength (kg/cm)	Adhesive (g/25mm)	Applications		
EVA Protection Tape	50	300-350	450-600	110, 120, 130	30 $^{\circ}\text{C}$ - 15, 20, 30, 40 80 $^{\circ}\text{C}$ - 30, 40, 50 120 $^{\circ}\text{C}$ - 35, 45, 60	PC, PMMA, PET, PVC, ABS, Glossy surface steel, Plastic thermal forming		

* Available Width: 1,600 mm

* Available Length: 200 m ~ 3,000 m

Glove Cleaner



Wearing on and off the gloves every time you clean them is not the most efficient way to work with them. The Glove Cleaner, however, will make it significantly easy and time-saving. The workers can put their hands on the cleaner while wearing the gloves, and simply push or pull their hands as the cleaner does its job. The cleaner serves numbers of purposes in various manufacturing process, and it does not matter where you put the cleaner as long as it is close enough to the workers.



M30C-001

Features

- Stainless Steel Body offers great durability
- The nature of compact design makes it very mobile
- Can be mounted on either table or wall
- The adhesive rolls have cutting lines to make them easy to peel off
- Non-woven, PE and PP rollers are available

Roller Variations

Item	Non-woven Sticky Roller	PE Sticky Roller	PCB Cleaning Roller
Material	Non-woven	Polyethylene	PP Synthetic Paper
Core	3" PE Core, 155 mm×15 m	3" PE Core, 150 mm×20 m	3" PE/ABS Core, 155 mm×20 m
Thickness	180 μm	47 μm	80 μm
Adhesion	250 ~ 350 g/25 mm	400 ~ 500 g/25mm	600 ~ 800 g/25 mm

Gel Stick



Features

- Sticky, non-volatile, non wire-drawing glue
- Soft, resilient, flexible
- No irritating odor, harmless, environment-friendly
- Used on electrostatic sensitive products and semiconductor assembly lines
- Suitable for high-class cleanrooms (up to 10~100 class)
- Clean, non-allergic, no particle-generating raw materials were used
- Anti-chemical, anti-corrosion, anti-static

Cleaning Application

- Laser head, mobile camera lenses
- Particles on the surface of LED/LCD
- Glass and plastic debris from lenses
- Dirts on the surface of CD/disk

Storage Conditions

- Keep away from direct light
- Temperature below 30°C
- Two months shelf-life

Variations and Specifications

Item Code	Head Diameter	Length	Rod Diameter	Adhesive Level
M27C-002	2.5 mm	75 mm	1.6 mm	15 g
M27C-003	1.7 mm	70 mm	1.6 mm	12 g
M27C-004	1.3 mm	70 mm	1.6 mm	10 g
M27C-005	0.8 mm	70 mm	1.6 mm	8 g

PU Swab



M16C-017



M16C-018



M16C-025



M16C-027



M16C-033



M16C-034



M16C-035



M16C-036



M16C-037



M16C-038



M16C-039

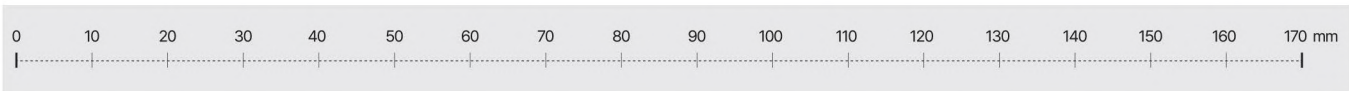


M16C-040



M16C-041

Polyester Swab



M16C-028



M16C-030



M16C-031



M16C-042



M16C-043



M16C-044



M16C-045



M16C-046



M16C-047

ESD Swab



M17C-006



M17C-007



M17C-008



M17C-009

Cotton Swab



M18C-001



M18C-004



M18C-017



M18C-018



M18C-019



M18C-020



M18C-021



M18C-022



M18C-023

Item Code	Materials		Size		Packing
	Tip	Stick	Tip (W × L)	Total Length	
M16C-017	PU	PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M16C-018			4 mm × 10 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M16C-025			11mm × 22 mm	148 mm	50 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-027			6 mm × 17 mm	163 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-033	PU	PU	3.5 mm × 12 mm	71 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-034			3.2 mm × 11 mm	77 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-035			3.5 mm × 11 mm	70 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-036			3.7 mm × 15 mm	65 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-037			4 mm × 21 mm	70 mm	500 pcs/bag, 40 bags/ctn
M16C-038			4.5 mm × 18 mm	163 mm	100 pcs/bag, 100 bags/ctn
M16C-039			8 mm × 23 mm	110 mm	100 pcs/bag, 200 bags/ctn
M16C-040			15 mm × 25 mm	130 mm	50 pcs/bag, 60 bags/ctn
M16C-041			20 mm × 27 mm	133 mm	50 pcs/bag, 100 bags/ctn
M16C-028	Knit Polyester	PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M16C-030	Polyester	PP	3 mm × 17 mm	163 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-031	Micro Denier Fabric with PP Tube	PP	8 mm × 20 mm	153 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M16C-042	Polyester	PU	3.5 mm × 11 mm	70 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-043			3.2 mm × 11 mm	75 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-044			3.8 mm × 12 mm	71 mm	100 pcs/s.bag, 5 s.bags/bag, 50 bags/ctn
M16C-045			7.0 mm × 17 mm	93 mm	100 pcs/bag, 200 bags/ctn
M16C-046			7.0 mm × 17 mm	163 mm	100 pcs/bag, 200 bags/ctn
M16C-047			13 mm × 25 mm	125 mm	100 pcs/bag, 50 bags/ctn
M17C-006	PU	A/S PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M17C-007	PU	Con. PP	11 mm × 22 mm	148 mm	50 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M17C-008	PU	Con. PP	6 mm × 17 mm	163 mm	100 pcs/bag, 10 bags/l.box, 12 i.bboxes/case
M17C-009	Knit Polyester	Con. PP	3 mm × 13 mm	68 mm	100 pcs/bag, 40 bags/l.box, 12 i.bboxes/case
M18C-001	100% Cotton	Wood	2.5 mm × 9 mm	74 mm	100 pcs/bag, 50 bags/l.box, 20 i.bboxes/ctn
M18C-004	100% Cotton	Wood	2.5 mm × 15 mm	153 mm	100 pcs/bag, 12 bags/l.box, 20 i.bboxes/ctn
M18C-017	Cotton	Paper	4.4 mm × 12 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn
M18C-018	Cotton	Paper	4.7 mm × 11 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn
M18C-019	Cotton	Paper	3.2 mm × 12 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn
M18C-020	Cotton	Paper	2.6 mm × 11 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn
M18C-021	Cotton	Paper	3 mm × 11 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn
M18C-022	Cotton	Paper	2.0 mm × 7.5 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn
M18C-023	Cotton	Paper	2.2 mm × 7.5 mm	80 mm	25 pcs/bag, 100 bags/box, 20 boxes/ctn

Silicone Rubber Roller



VIDEO

Stick Type



Item Code	Dia. (mm)	width (mm)	Length (mm)
M15C-001	5	-	120

Handy Type

Silicone Rubber Roller is a dust & particle cleaning roller, which can be used in vast range of industries. This product especially shines where you need a cleaning roller that leaves absolutely no residue behind, or that is heat and chemical resistant to legitimate degree.

Being a reusable roller, this product may reduce your long-term cost of using disposable variants. You can simply wash and dry the roller after using, but more common way is to use it with DCR-Pad as it cleans the roller very quickly, making the whole work process super efficient.



Item Code	Dia. (mm)	Width (mm)	Length
M15C-002	20	30 mm	90 mm
M15C-003	25	50 mm	90 mm
M15C-004	30	100 mm	150 mm
M15C-005	30	150 mm	150 mm
M15C-006	30	200 mm	150 mm
M15C-007	30	250 mm	150 mm
M15C-008	30	300 mm	150 mm



Materials	Silicone Roller, Aluminum Handle
Width	30, 50, 100, 150, 200, 250, 300 mm
Diameter	20, 30 mm
Adhesive Level / Hardness	Weak/40 Medium/30

Item Code	Size	Adhesive type
M15C-027	30 mm	weak adhesive
M15C-028	50 mm	weak adhesive
M15C-029	100 mm	weak adhesive
M15C-030	100 mm	medium adhesive
M15C-031	150 mm	weak adhesive
M15C-032	150 mm	medium adhesive
M15C-033	200 mm	weak adhesive
M15C-034	200 mm	medium adhesive
M15C-035	250 mm	weak adhesive
M15C-036	250 mm	medium adhesive
M15C-037	300 mm	weak adhesive
M15C-038	300 mm	medium adhesive

Floor Type




Item Code	Dia. (mm)	Width (mm)	Length
M15C-009	50	250 mm	1~2 m
M15C-010	50	300 mm	1~2 m
M15C-011	50	500 mm	1~2 m
M15C-012	50	600 mm	1~2 m

DCR-PAD

DCR-Pad and the variations offer a great time-saving, efficient way to clean and re-use your reusable rollers such as silicone rubber rollers.

Technical Specifications

Descriptions	Adhesive Paper	Release Paper
Materials	Paper, Adhesive	Silicone coated paper
Adhesion (gf/25 mm)	Weak: 800 g \pm 100 Standard: 1100 g \pm 100 Strong: 1250 g \pm 100	
Thickness	80 μ m / sheet	117 μ m / sheet
Total Thickness	13.0 mm/pad (50 sheets)	
Packing	50 sheets/pad, 20 pads/box (330 mm) 50 sheets/pad, 40 pads/box (165 mm)	
Constructions	 <ul style="list-style-type: none"> • Release paper • Adhesive • Base paper 	



Features

- Use with reusable Rubber Rollers
- Excellent cleaning guaranteed
- Cost-effective

1) DCR-Pad with full adhesive area (standard)

Item Code	M14C-005	M14C-006
Size	330 mm \times 240 mm	165 mm \times 240 mm
Adhesive Area	330 mm \times 180 mm	165 mm \times 180 mm
Color	White (base paper)	
Descriptions	Full adhesive	



2) Black colored DCR-Pad for better dust visibility

Item Code	M14C-009	M14C-010
Size	330 mm \times 240 mm	165 mm \times 240 mm
Adhesive Area	330 mm \times 180 mm	165 mm \times 180 mm
Color	Black (base paper)	
Descriptions	Full adhesive Improved dust visibility	



3) BCR-Pad with adhesive free area

Item Code	M14C-007	M14C-008
Size	330 mm \times 240 mm	165 mm \times 240 mm
Adhesive Area	330 mm \times 180 mm	165 mm \times 180 mm
Color	White (base paper)	
Descriptions	Adhesive free on one End Easier to peel-off	



Cleanroom Mop



M19C-001



M19C-003



M19C-013



M19C-019

Wet Mop

Wet Mop is the most popular 1/4" knitted tube mop that MEC handles. The mop is made of 100% microfiber polyester, makes it incredibly liquid-absorbent while particle generation is suppressed at the reasonable level. It is cost-effective, easy to use and works very well for the application.

Item Code		M19C-001	Wet Mop Set
		M19C-004	Wet Mop Refill
		M19C-011	Wet Mop Handle
Size	Mop	16 cm × 35 cm	
	Handle	80 cm ~ 150 cm (Adjustable)	
Material	Mop	100% Microfiber Polyester	
	Handle	Aluminum	

Flat Mop with SUS Plate

SUS Flat Mop is the best cleanroom mop MEC has to offer. The mop is made 1/4" knitted tube yarn, cleanroom-launched as well as packaged in cleanroom, plus stainless steel handle makes it extremely low particle-generating mop. High-class cleanrooms, hospitals and labs will be excellent applications for this mop.

Item Code		M19C-003	SUS Flat Mop Set
		M19C-008	SUS Flat Mop Refill
		M19C-010	SUS Flat Mop Handle
Size	Mop	12 cm × 40 cm	
	Handle	80 cm ~ 150 cm (Adjustable)	
Material	Mop	100% Microfiber Polyester	
	Handle	Stainless Steel	

Flat Mop with Plastic Plate

Plastic Flat Mop is edgeless knitted tube mop that is made of 100% microfiber polyester. This mop comes with simple, solid handle that provides excellent durability, while the mop frame has a foot-press button on top for easier mop replacement, making it one of the most convenient mops to work with.

Item Code	M19C-013	Plastic Flat Mop Set
	M19C-006	Plastic Flat Mop Refill
	M19C-015	Plastic Flat Mop Handle
Size	Mop	18 cm × 60 cm
	Handle	125 cm (Non-adjustable)
Material	Mop	100% Microfiber Polyester
	Handle	Galvanized Steel

T Mop

T Mop specializes at cleaning windows, walls and ceilings because of the shape as well as lightweight aluminum frame. Cleanroom-laundered 100% microfiber polyester mop will be very effective at cleaning places your hand won't reach, and adjustable handle will make it even more viable.

Item Code	M19C-019	T Mop Set
	M19C-020	T Mop Refill
	M19C-021	T Mop Handle
Size	Mop	8 cm × 40 cm
	Handle	80 cm ~ 150 cm (Adjustable)
Material	Mop	100% Microfiber Polyester
	Handle	Aluminum

Wet Mop Refill

M19C-004



Size: 16 cm × 35 cm
100% Microfiber Polyester

SUS Flat Mop Refill

M19C-008



Size: 12 cm × 40 cm
100% Microfiber Polyester

Plastic Flat Mop Refill

M19C-006



Size: 18 cm × 60 cm
100% Microfiber Polyester

T Mop Refill

M19C-020



Size: 8 cm × 40 cm
100% Microfiber Polyester

Mop Trolley

Mop Trolley provides the utmost convenience and work efficiency to the worker. All the components including buckets, wringer and casters are fully autoclavable to help maintain the trolley always clean. In addition, the whole trolley was designed around touchless mopping system, so the workers wouldn't have to touch the mop refills throughout the entire cleaning stages.

Item Code	M31C-002
Main Material	Stainless Steel 304
Casters Material	Phenolic
Dimension	700 × 540 (mm) with handle and caster

Features

- Fully compatible with following sterilizations; autoclaving, ETO, Gamma Irradiation
- Removable handle for easier sterilization and storage
- 3 Buckets

