



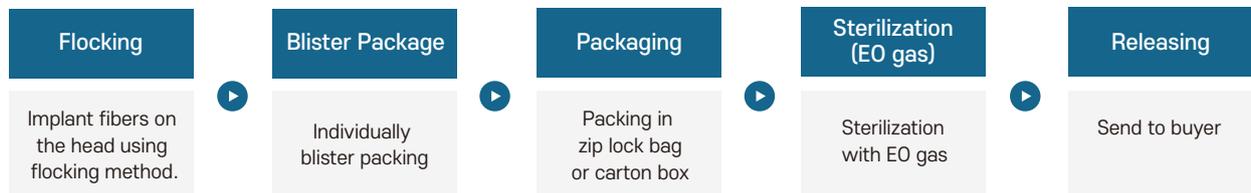
PMW MANUFACTURING PROCESS

2021 Establishment of manufacturing plant Succeeded.

PMW is suitably qualified to proceed all the procedures including manufacture, packaging and examination with our GMP facility.

All the products are made in Korea, which guarantees best quality.
For the superior quality, we do not use any materials from China.

Process



1 Flocking



① Flocking



② Dry half-finished goods after flocking
(Left : Before Dry / Right : After Dry)



③ Air-cleaning after dry



④ Moved to blister room after being wrapped in a zip lock bag



PMW MANUFACTURING PROCESS

2 Blister



① Blister packing in a clean room



② Marking manufacturing date and expiry date



③ Examination after blister packing

3 Individual Packing



① Packing blister-packed products in a zip-lock bag



② Packing final products in a inbox



③ Packing final products in a carton box



④ Sterilization



⑤ Release



PMW MANUFACTURING PROCESS

PMW Ulsan Plant

2F, Building 1, 135, Cheoyongsaneop 3-gil, Cheongnyang-eup, Ulju-gun, Ulsan, Republic of Korea
052 - 227 - 6364



▲ Blister Packing Machine



▲ GMP Clean Room



▲ Material Storage Space

PMW's Product

PMW-SWAB Tool for Specimens, Flocked Swab (PMW-SWAB is CE, ISO 13485, ISO 9001, FDA certified.)



Nasopharyngeal



Oropharyngeal

Cat. No	Product Description	Package
PMW-SWAB DUAL	Nasopharyngeal Swab with breakpoint 1EA & Oropharyngeal Swab with breakpoint 1EA	100 pcs/Box
PMW-SWAB NP1	Nasopharyngeal Swab with breakpoint 1EA	100 pcs/Box
PMW-SWAB OP2	Oropharyngeal Swab with breakpoint 1EA	100 pcs/Box

For upper respiratory specimens, the Centers for Disease Control and Prevention (CDC) is recommending nasopharyngeal washes/aspirates, nasal aspirates or to collect both a nasopharyngeal swab AND an oropharyngeal swab made of synthetic fiber with plastic applicators.

How to Use

- 1) Prior to use, check the packaging for abnormalities and damage.
- 2) Take the product out of the wrapper carefully.
- 3) Samples are collected from patients.
- 4) Once the specimens are collected, Put the head of the product in a separate storage or transport container and apply force to the break point. (If the storage or carrying container is large, put the whole product in).

Method of storage and management after use

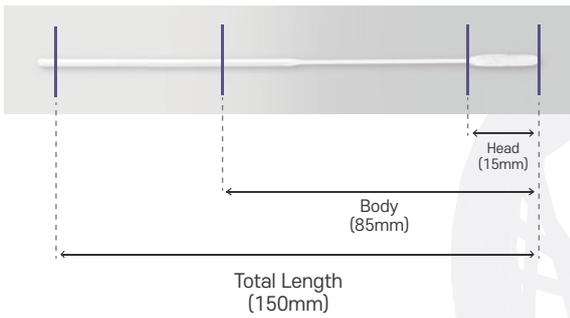
- This product is disposable, so please dispose of it after use.
- Reuse prohibited.

PMW-SWAB Package

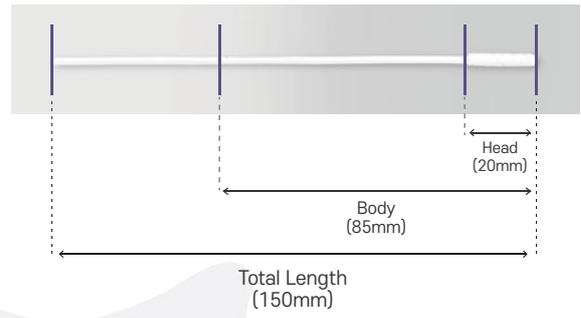
PMW SWAB		Length		Weight	Weight	Sterile
DUAL	NP1	Body	85mm ± 5mm	1.5g	Acetal	EO Gas
		Head	15mm ± 5mm		Nylon66	
		Total Length	150mm ± 5mm		(Acetal+Nylon66)	
	OP2	Body	85mm ± 5mm	1.6g	Acetal	EO Gas
		Head	20mm ± 5mm		Nylon66	
		Total Length	150mm ± 5mm		(Acetal+Nylon66)	

* DUAL Weight : 2.6g

NP1(Nasopharyngeal)



OP2(Oropharyngeal)



PMW-SWAB NP1



PMW-SWAB OP2

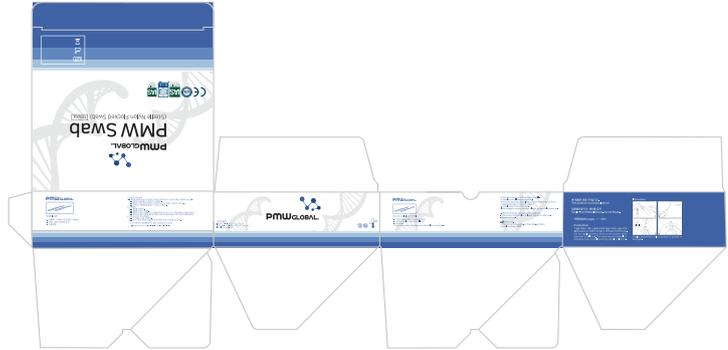
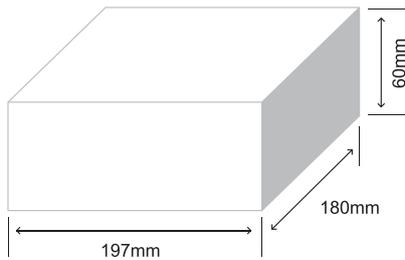


PMW-SWAB DUAL

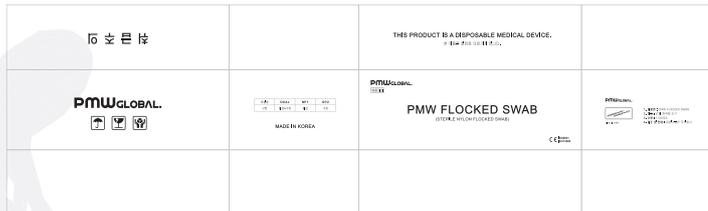
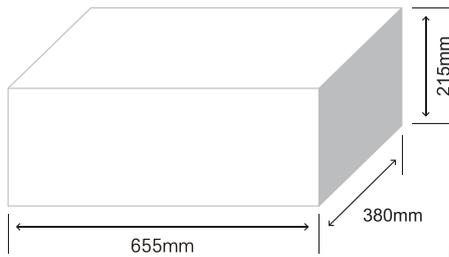


PMW-SWAB Package Information

PMW-SWAB Inner Box



PMW-SWAB Carton



* The box size is based on plan figure, it can be differed during assembly process

PMW-SWAB DUAL

Package	Width	Length	Height	Weight	ETC
Inner Box	197mm	180mm	60mm	354g ± 5%	1 INBOX = 100 SET SWABS(1 SET= NP1 + OP2)
Carton	655mm	380mm	215mm	7,825g ± 5%	1 CARTON = 20 INBOXES = 2,000EA SWABS

PMW-SWAB NP1

Package	Width	Length	Height	Weight	ETC
Inner Box	197mm	180mm	60mm	249g ± 5%	1 INBOX = 100 EA SWABS
Carton	655mm	380mm	215mm	5,725g ± 5%	1 CARTON = 20 INBOXES = 2,000EA SWABS

PMW-SWAB OP2

Package	Width	Length	Height	Weight	ETC
Inner Box	197mm	180mm	60mm	259g ± 5%	1 INBOX = 100 EA SWABS
Carton	655mm	380mm	215mm	5,925g ± 5%	1 CARTON = 20 INBOXES = 2,000EA SWABS

✓ Pallet Size(W*L)(mm) - 1100 x 1100
 - 20FT : 400 Boxes
 - 40HC : 880 Boxes

✓ Bulk(Non-palletizing)
 - 20FT : 594 Boxes
 - 40HC : 1,296 Boxes

* This size is based on plan figure, it can be differed during assembly process

PMW NS SWAB is a tool for specimen collection. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certified by CE, FDA. Also swabs are manufactured in our own plant, which is certificated by ISO13485 and ISO9001.



Cat. No	Product Description	Package
PMW NS SWAB	NS SWAB 1EA	200ea / 1box

Intended Use

PMW'S NS swab is used for collecting clinical specimens for diagnosis.

How to Use

- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrap carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

PMW-SWAB NS SWAB



	Length	Material	Weight	Type	Sterile
Head	20 ± 5mm	Nylon66			
Body	60 ± 5mm	PP	1.05g	Ultrafine	E0 gas
Total Length	80 ± 5mm	(Nylon66 + PP)			

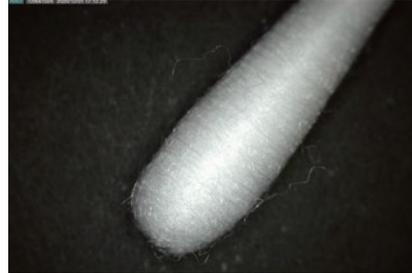
PMW's Product



PMW SWAB is tool for collecting specimens. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certificated by **CE, FDA, ISO13485, ISO9001**.



PMW POLYESTER SPUN SWAB



Cat. No	Product Description	Package
PMW POLYESTER SPUN SWAB	Polyester Spun swab 1EA	200 pcs/Box

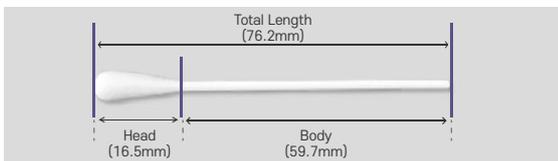
Intended Use

PMW's Polyester Spun swab is used for collecting clinical specimens for diagnosis.

How to Use

- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrapper carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a seperated storage or transport container.

PMW-SWAB POLYESTER SPUN SWAB



	Length	Material	Weight	Type	Sterile
Head	16.5mm ± 5%	Polyester			
Body	59.7mm ± 5%	Polypropylene	0.5g	Ultrafine	E0 gas
Total	76.2mm ± 5%	(Polyester + Polypropylene)			

PMW's Product



PMW SWAB is tool for collecting specimens. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certificated by **CE, FDA, ISO13485, ISO9001**.



PMW RAYON SWAB



Cat. No	Product Description	Package
PMW RAYON SWAB	Rayon swab 1EA	200 pcs/Box

Intended Use

PMW's Rayon swab is used for collecting clinical specimens for diagnosis.

How to Use

- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrapper carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

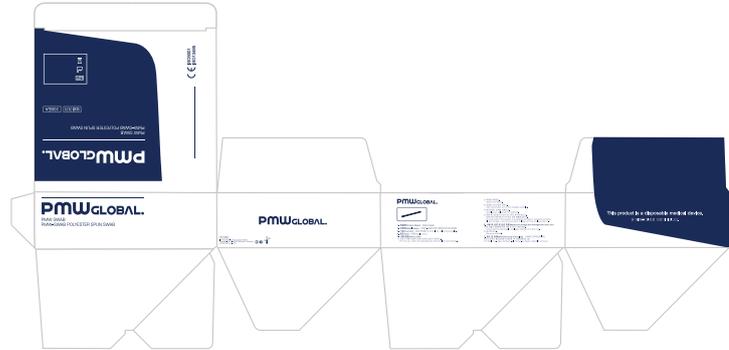
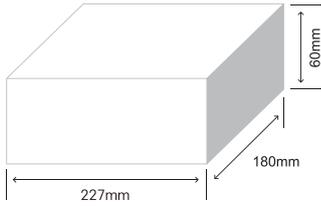
PMW-SWAB RAYON SWAB



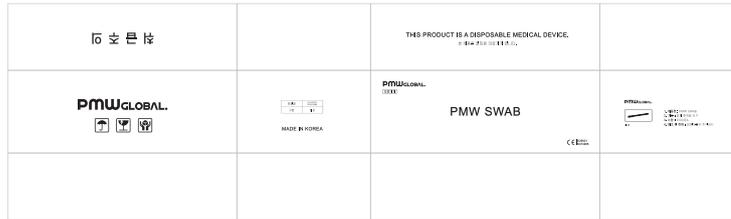
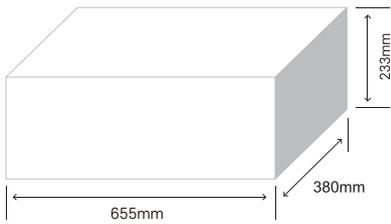
	Length	Material	Weight	Type	Sterile
Head	18mm ± 5%	Rayon			
Body	57mm ± 5%	Polypropylene	0.5g	Ultrafine	E0 gas
Total	75mm ± 5%	(Rayon + Propopylene)			

PMW-SWAB Package Information

PMW-SWAB Inner Box



PMW-SWAB Carton



* The box size is based on plan figure, it can be differed during assembly process

PMW-SWAB POLYESTER SPUN SWAB

Package	Width	Length	Height	Weight	ETC
Inner Box	227mm	180mm	60mm	225g ± 5%	200 ea in Inner Box.
Carton	655mm	380mm	233mm	3,295g ± 5%	4000 ea in Carton Box.

PMW-SWAB RAYON SWAB

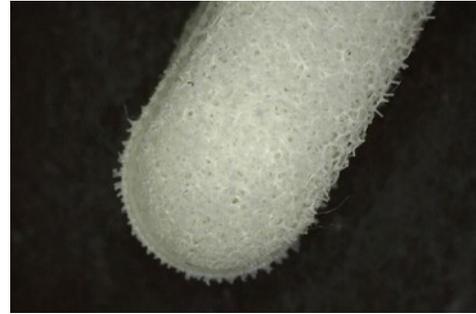
Package	Width	Length	Height	Weight	ETC
Inner Box	227mm	180mm	60mm	225g ± 5%	200 ea in Inner Box.
Carton	655mm	380mm	233mm	3,295g ± 5%	4000 ea in Carton Box.

* The box size is based on plan figure, it can be differed during assembly process

✓ Pallet Size(W*L)(mm) - 1100 x 1100
 - 20FT : 400 Boxes
 - 40HC : 880 Boxes

✓ Bulk(Non-palletizing)
 - 20FT : 594 Boxes
 - 40HC : 1,296 Boxes

PMW CONTROL SWAB is a tool for specimen collection. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certificated by [CE](#), [FDA](#). Also swabs are manufactured in our own plant, which is certificated by [ISO13485](#) and [ISO9001](#).



Cat. No	Product Description	Package
PMW CONTROL SWAB	CONTROL SWAB 1EA	200ea / 1box

Intended Use

PMW'S CONTROL SWAB is used for collecting clinical specimens for diagnosis.

How to Use

- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrap carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

PMW CONTROL SWAB



	Length	Material	Weight	Type	Sterile
Head	15mm ± 5mm	Polyurethane			
Body	60mm ± 5mm	PP	1.05g	Ultrafine	EO gas
Total length	75mm ± 5mm	(Polyurethane + PP)			

PMW CONTROL SWAB L15 is a tool for specimen collection, used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are CE, FDA registered also ISO13485 and ISO9001 certificated.



Cat. No	Product Description	Package
PMW CONTROL SWAB L15	CONTROL SWAB L15 1EA	100ea / Ibox

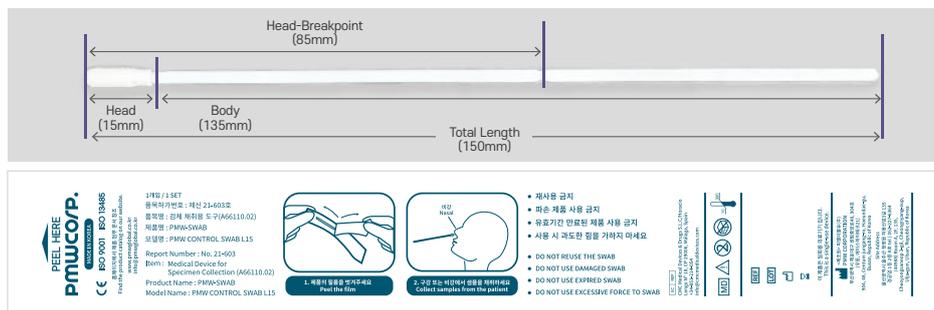
Intended Use

PMW'S CONTROL SWAB L15 is used for collecting clinical specimens for diagnosis.

How to Use

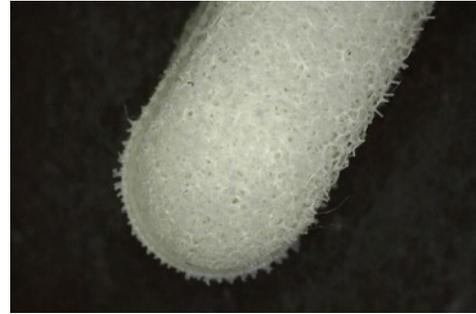
- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrap carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

PMW CONTROL SWAB L15



	Length	Material	Weight	Sterile
Head	15mm ± 5mm	Polyurethane		
Body	135mm ± 5mm	PP	1.05g	EO gas
Total length	150mm ± 5mm	(Polyurethane + PP)		

PMW CONTROL SWAB 80 is a tool for specimen collection. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certificated by [CE](#), [FDA](#). Also swabs are manufactured in our own plant, which is certificated by [ISO13485](#) and [ISO9001](#).



Cat. No	Product Description	Package
PMW CONTROL SWAB 80	CONTROL SWAB 1EA	200ea / 1box

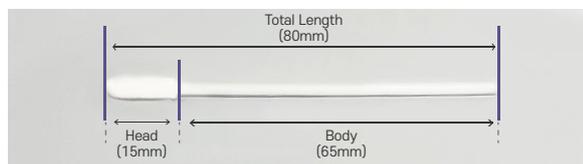
Intended Use

PMW'S CONTROL SWAB 80 is used for collecting clinical specimens for diagnosis.

How to Use

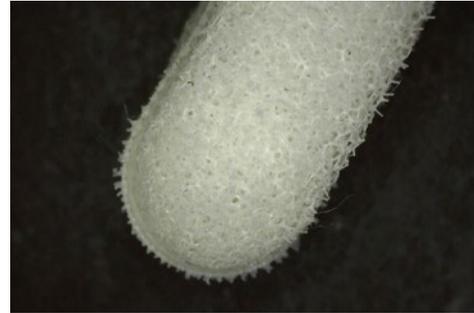
- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrap carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

PMW CONTROL SWAB 80



	Length	Material	Weight	Type	Sterile
Head	15mm ± 5mm	Polyurethane			
Body	65mm ± 5mm	PP	1.05g	Ultrafine	EO gas
Total length	80mm ± 5mm	(Polyurethane + PP)			

PMW CONTROL ECO SWAB 80 is a tool for specimen collection. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certified by [CE](#), [FDA](#). Also swabs are manufactured in our own plant, which is certified by [ISO13485](#) and [ISO9001](#). We used eco-resin, a biodegradable bioplastic that contains eco-friendly additives based on natural substances, which combines mechanical and material characteristic.



Cat. No	Product Description	Package
PMW CONTROL ECO SWAB 80	CONTROL SWAB 1EA	200ea / 1box

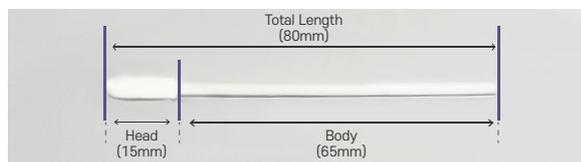
Intended Use

PMW CONTROL ECO SWAB 80 is used for collecting clinical specimens for diagnosis.

How to Use

- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrap carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

PMW CONTROL ECO SWAB 80



	Length	Material	Weight	Type	Sterile
Head	15mm ± 5mm	Polyurethane			
Body	65mm ± 5mm	Eco-friendly resins	1.05g	Ultrafine	E0 gas
Total length	80mm ± 5mm	(Polyurethane + Eco-friendly resins)			

PMW NS ECO SWAB is a tool for specimen collection. It is used for medical test such as COVID, flu. All the products from PMW are designed and manufactured in Republic of Korea, using Korean equipment. Our swabs are certificated by CE, FDA. Also swabs are manufactured in our own plant, which is certificated by ISO13485 and ISO9001. We used eco-resin, a biodegradable bioplastic that contains eco-friendly additives based on natural substances, which combines mechanical and material characteristic.



Cat. No	Product Description	Package
PMW NS ECO SWAB	NS SWAB 1EA	200ea / 1box

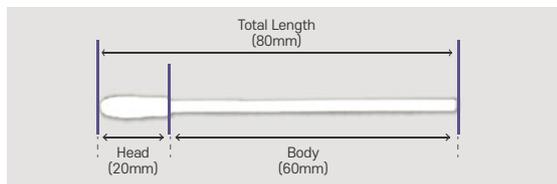
Intended Use

PMW NS ECO SWAB is used for collecting clinical specimens for diagnosis.

How to Use

- ① Before using the swab, check the package if it is damaged or deformed.
- ② Take the product out of the wrap carefully.
- ③ Collect samples from patients.
- ④ Once the specimens are collected, put the head of the product in a separated storage or transport container.

PMW-SWAB NS ECO SWAB



	Length	Material	Weight	Type	Sterile
Head	20 ± 5mm	Polyurethane			
Body	60 ± 5mm	Eco-friendly resins	1.05g	Ultrafine	E0 gas
Total Length	80 ± 5mm	(Polyurethane + Eco-friendly resins)			