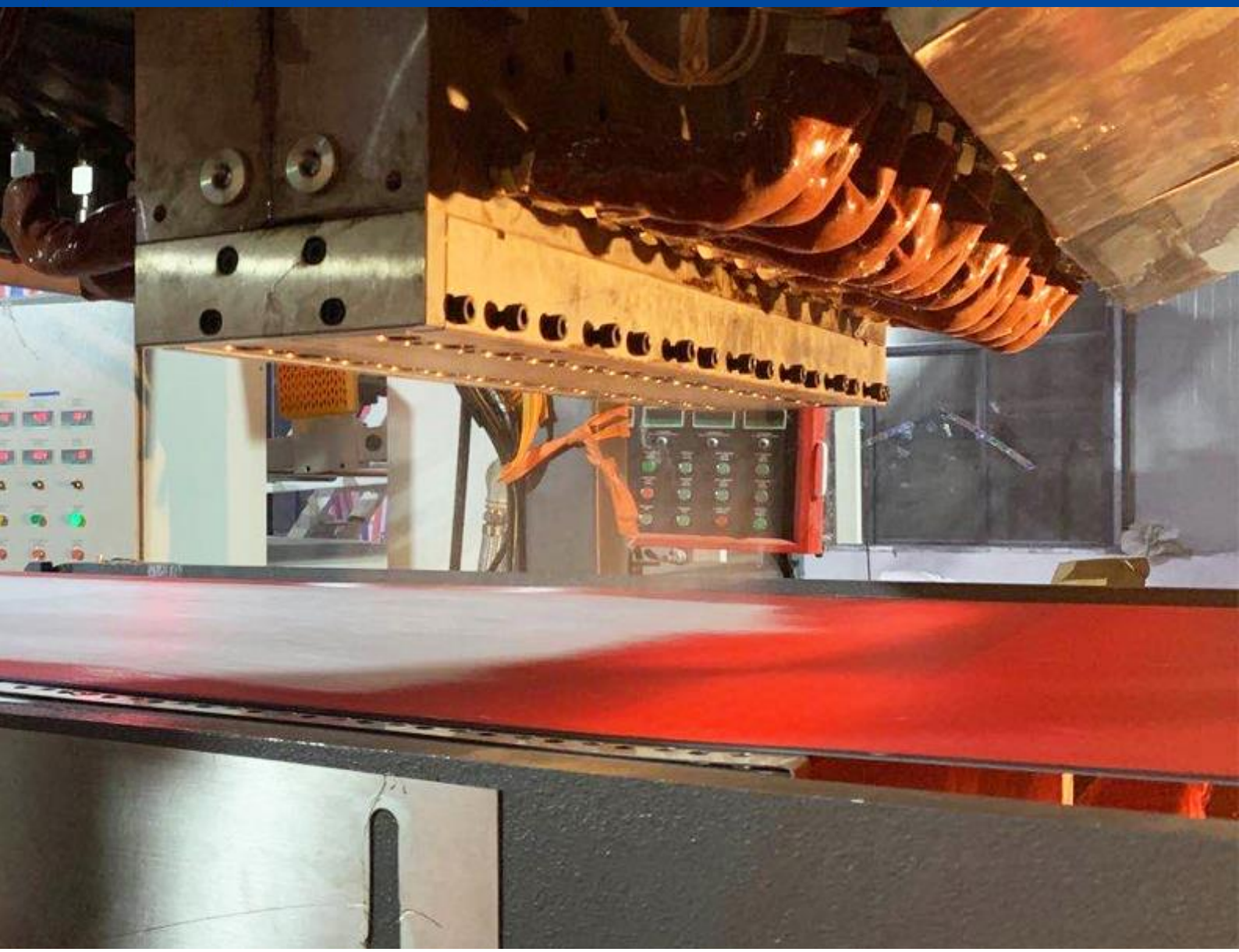
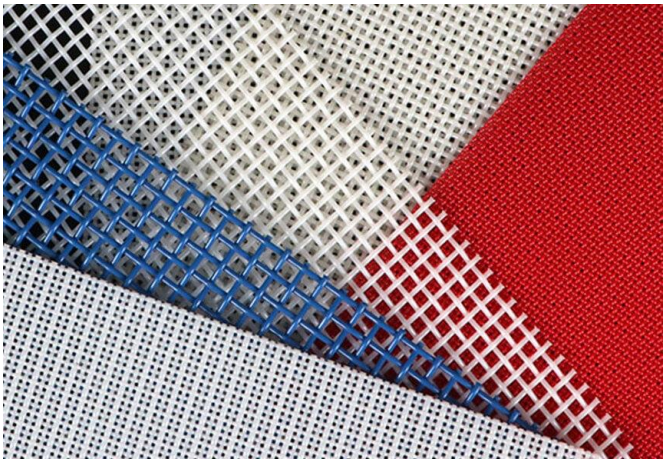


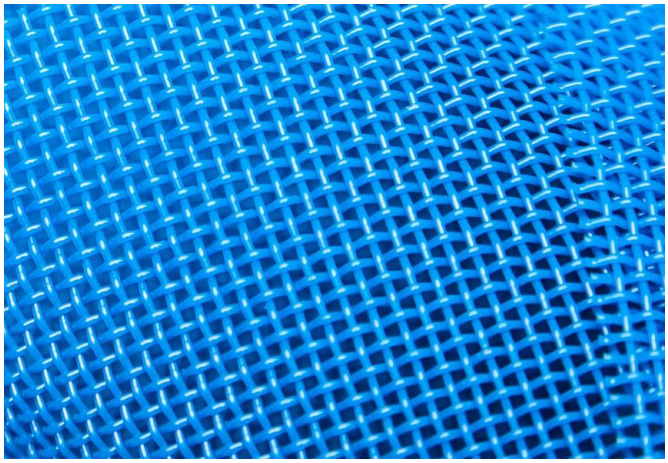
Polyester Mesh Belt for Nonwoven Fabric Production Process

Polyester Mesh Belt for Hot Air-through Bonding Nonwoven Fabric

Description

The Polyester Mesh Belt for Air-through Bonding Nonwoven Fabric, also known as the Hot Air Nonwoven Mesh Belt, is a specialized functional conveyor belt designed for air-through bonding lines. It operates inside the hot air oven, supporting and conveying the fiber web while allowing hot air to penetrate evenly through the mesh for efficient thermal bonding and consolidation of the nonwoven fabric.





Feature

1. High air permeability ensures uniform air distribution through the fiber web.
2. Excellent heat resistance, continuous working temperature of 150–180°C.
3. Smooth surface ensures uniform fabric thickness without marking.
4. Outstanding dimensional stability with minimal elongation or shrinkage.
5. Easy to clean, non-fibrous adhesion, long service life.
6. Customizable width, joint type, and reinforced edges according to machine design.

Application

The hot air nonwoven mesh belt is widely used in various nonwoven production lines, especially in:

1. Air-through bonded nonwoven fabrics.
2. Hygiene products (top sheets of diapers and sanitary napkins).
3. Thermal setting zones in melt blown and spunbonded composite lines.
4. Filtration and medical protective materials production.

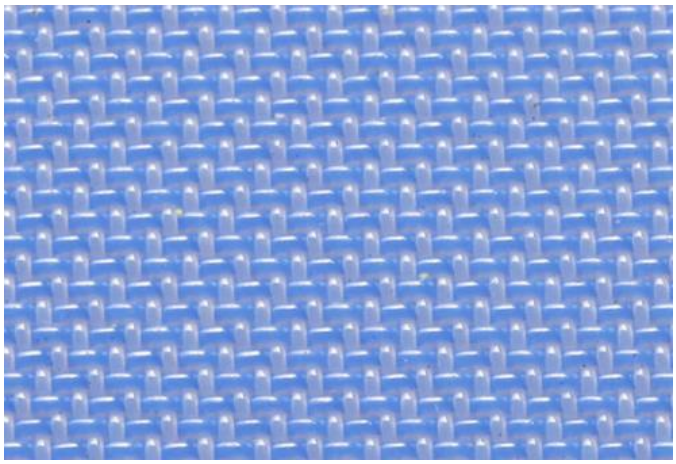
Specifications

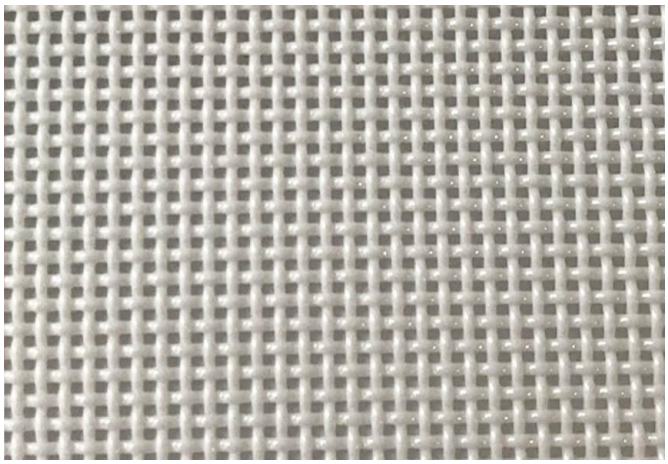
Model	Diameter (mm)		Density (wire/centimeter)		Air Permeability(m3/m2h)
	Warp	Weft	Warp	Weft	
PFM-HA-06702	0.7	0.7	6.3	6.3	11000
PFM-HA-09502	0.5	0.5	10	10	10100
PFM-HA-07502	0.5	0.5	7.5	7.5	10000
PFM-HA-05602	0.6	0.6	6	6	18000
Custom specifications are available if you can't find the suitable size.					

Polyester Mesh Belt for Wetlaid Non-Woven Process

Description

The Polyester Mesh Belt is a key component in the wet-laid nonwoven fabric production line, used during the forming and dewatering stages. It acts as the forming wire orforming fabric, providing a stable and uniform surface for fiber deposition and water drainage.





With excellent dimensional stability, smooth surface, and high permeability, polyester mesh belts ensure uniform fiber distribution and consistent product quality.

Feature

1. Optimum drainage, Excellent fiber retention, Highly resistant against wear.
2. High Fiber Retention: Fine upper surface prevents fiber loss and ensures even formation.
3. Excellent Dimensional Stability: Resistant to stretching and deformation under wet conditions.
4. High Permeability: Optimized drainage efficiency for faster dewatering.
5. Smooth Surface: Guarantees defect-free, mark-free nonwoven surfaces.
6. Chemical and Heat Resistance: Withstands wet-laid process chemicals and drying temperatures.
7. Easy Cleaning: Non-adhesive surface reduces fiber build-up and simplifies maintenance.

8. Customizable: Mesh belts can be tailored to specific manufacturing needs by adjusting the size of the mesh openings or using different materials for the belt.

Application

Polyester forming mesh belts are widely used in various wet-laid nonwoven production lines, including:

1. Wetlaid paper-like nonwoven fabrics
2. Battery separator substrates
3. Industrial filtration materials
4. Glass fiber and carbon fiber wet-laid mats
5. Decorative base materials and synthetic leather substrates

Specifications

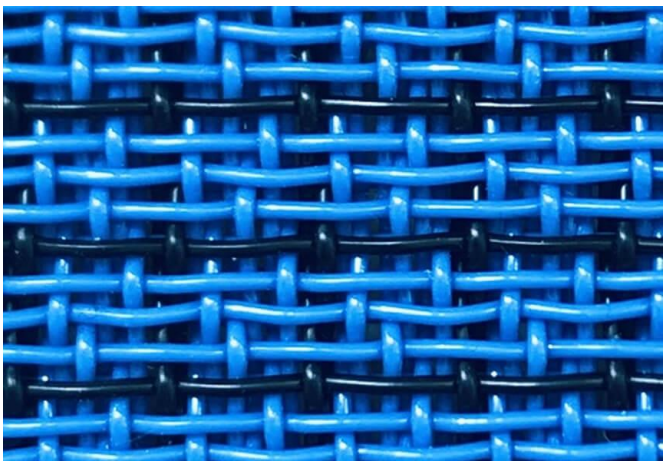
Model	Wire diameter		Density		weight	Aperture Radial/latitude	Air Permeability (m3/m2h)
	(mm)		(wire/centimeter)		(kg/m2)	(mm)	
	warp	weft	warp	weft			
PFM-Wetlaid-09603	0.5	0.6	10.5	9.2	0.65	0.45/0.48	8300
PFM-Wetlaid-09502	0.5	0.5	9.5	9	0.63	0.55/0.53	10100
Custom specifications are available if you can't find the suitable size.							

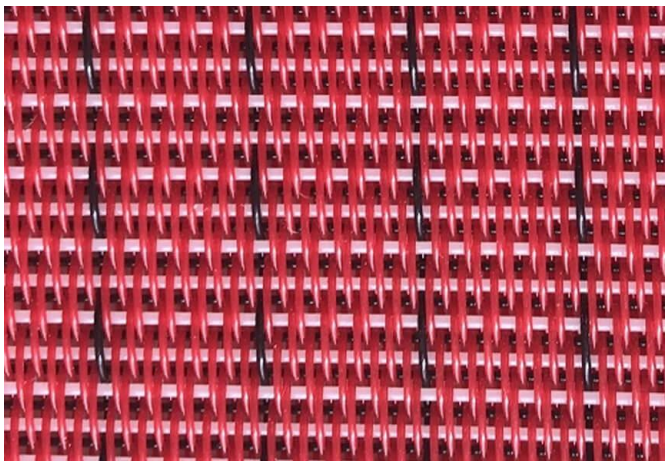
Polyester Mesh Belt for Air laid Nonwoven

Description

Airlaid is a nonwoven textile material that is produced by air-laying fibers onto a moving conveyor belt using a dry-laid process. In this process, a web of fibers is formed by suspending them in air and then depositing them onto a moving belt with the help of a vacuum. This creates a highly absorbent and durable material that is widely used in a variety of applications such as hygiene products, food packaging, and industrial wipes.

Airlaid can be made from a wide range of fibers such as pulp, synthetic fibers, or a blend of both. The fibers are first opened and fluffed up, and then transported by air to the moving conveyor belt. Once the fibers have been deposited onto the belt, they are bonded together using various methods such as thermal bonding, chemical bonding, or mechanical entanglement. The resulting material is highly absorbent, soft, and has good strength and durability.





Feature

The airlaid mesh belt has several advantages and applications in the production of airlaid nonwoven materials. Some of these are:

1. High strength and durability: Airlaid mesh belts are typically made from high-strength polyester monofilament , which makes them strong and durable. This allows them to withstand the high tension and stress that is generated during the airlaid process.

2. Good drainage and airflow: The open mesh design of the airlaid mesh belt allows for good drainage and airflow. This is essential in the airlaid process, as it allows air to pass through the belt and carry the fibers to the conveyor belt, ensuring that they are deposited evenly.

3. Prevents fiber buildup: The open mesh design of the airlaid mesh belt also helps to prevent the buildup of fibers on the belt, which can lead to blockages and downtime in the production process.

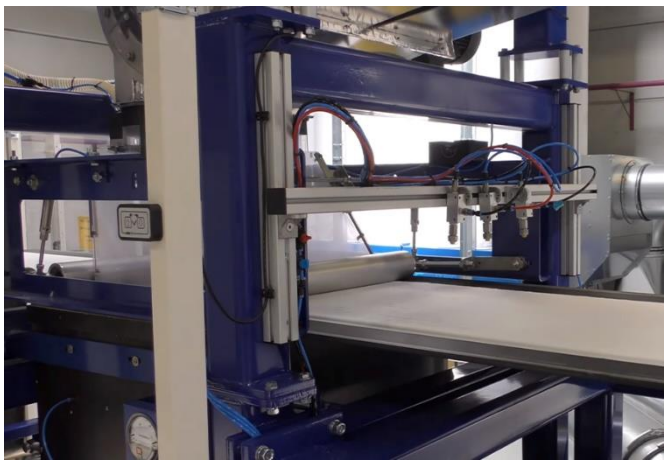
4. Easy to clean: Airlaid mesh belts are easy to clean, which helps to maintain production efficiency and minimize downtime.

5. Excellent electrical conductivity: High static discharge for excellent formation and sheet release.

Application

Some common applications of airlaid mesh belts include the production of:

1. Hygiene products such as diapers, feminine care products, and adult incontinence products.
2. Food packaging such as tray liners, absorbent pads, and wraps for meat and poultry.
3. Industrial products such as cleaning wipes, oil absorbents, and filtration media.



Specifications

Type	Wire diameter (mm)		Density (wire/centimeter)		Weight	CFM 127Pa	Caliper
	Warp	Weft	Warp	Weft	(kg/m2)		(mm)
PFM-Airlaid-01	0.5	0.5	20.5	16	1.2	700	1.8
PFM-Airlaid-02	0.43×0.70	0.7	18	11	1.05	900	2.1
PFM-Airlaid-03	0.52×0.50	0.3×0.70	16	13	1	750	1.6
PFM-Airlaid-04	0.52×0.50 (antistatic)	0.45×0.60	20	15	1.01	600	1.6
PFM-Airlaid-05	0.38×0.52	0.50×0.60	20.5	18	1.1	650	1.45
PFM-Airlaid-06	0.5	0.5	8.5	9	0.52	900	0.95
PFM-Airlaid-07	0.68	0.7	7	6.5	0.62	850	1.3
Custom specifications are available if you can't find the suitable size.							

Polyester Mesh Belt for Spunlace Nonwoven Fabric

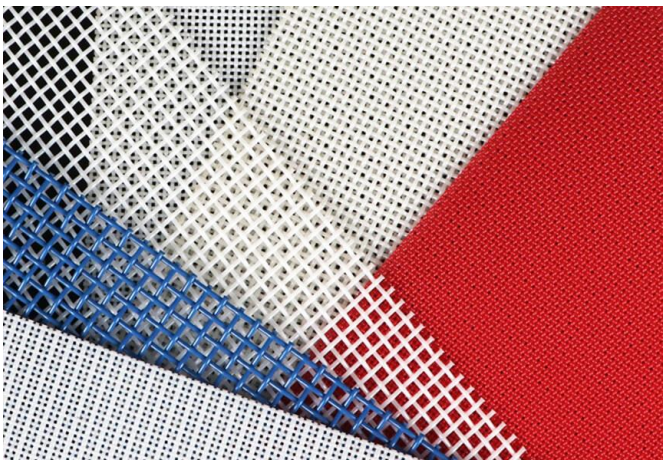
Description

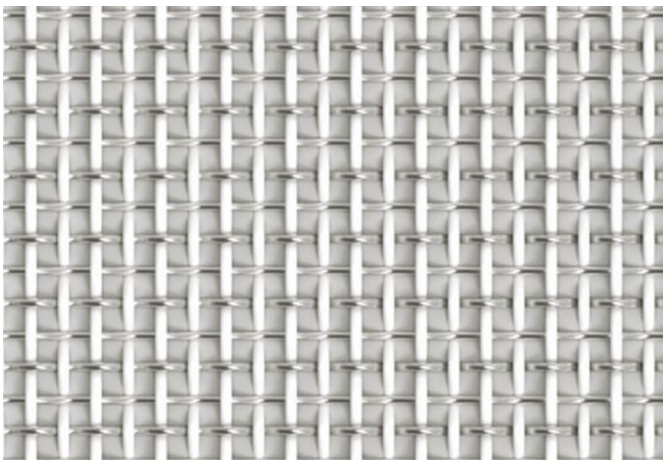
A Spunlace Nonwoven Fabric Mesh Belt — also known as a Spunlace forming belt or Spunlace conveyor belt — is a specialized industrial mesh belt used in spunlace (hydroentanglement) nonwoven production lines.

It acts as the forming and supporting surface for fibers during the hydroentanglement process, where high-pressure water jets entangle loose fibers into a cohesive nonwoven fabric.

Polyester is a popular material for spunlace mesh belts because it is strong, durable, and has excellent resistance to abrasion and tearing. It can also withstand the high-pressure water jets used in the spunlace process without stretching or deforming.

PFM Screen offers polyester mesh for spunlace in a variety of sizes and configurations to meet the specific needs of different production lines. They can also be customized with features such as coatings, edge reinforcement and tracking rails to optimize performance and increase durability.

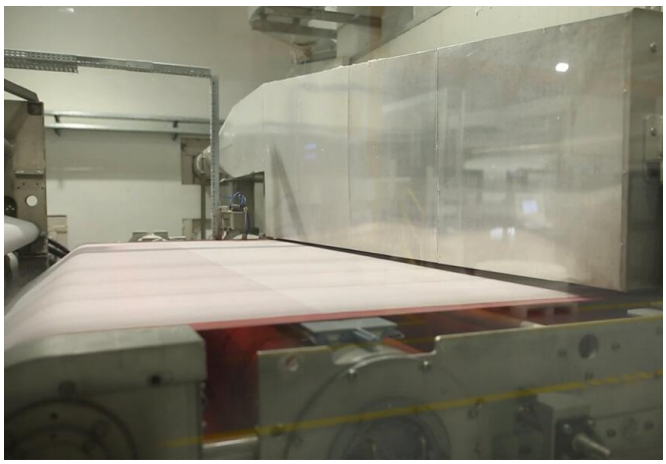




Feature

1. Special structural design greatly improves efficiency.
2. Extra strength yarn used to resist damage from high pressure shower.
3. Excellent permeability, improve dehydration efficiency.
4. Longitudinal strength is high, and horizontal holding force is high.
5. High anti-fatigue strength, clear perforation and good molding quality.
6. Many interweaving points, good peelability, non-stick to cotton.
7. High fiber bonding, good strength and high supporting force.
8. Tailor-made belt patterns for innovative products

Application



Spunlace mesh belts have a wide range of applications in the textile industry, particularly in the production of nonwoven materials using the spunlace process. Some common applications of spunlace mesh belts include:

1. Nonwoven Fabric Production: Spunlace mesh belts are used in the production of nonwoven fabrics for a variety of applications, including medical, hygiene, and personal care products, as well as filtration media, automotive interiors, and industrial wipes.

2. Wet Wipes Production: Spunlace mesh belts are also used in the production of wet wipes, which are commonly used for cleaning and personal hygiene purposes. The mesh belt allows for the wet wipe material to be transported through the production process while maintaining its shape and quality.

3. Filtration Media: Spunlace mesh belts are used as conveyor belts for the production of filtration media used in air and water filtration systems. The porous nature of the mesh allows for efficient liquid and air flow through the material, which is important for filtration performance.

Specifications

Type	Wire diameter (mm)		Density (wire/centimeter)		Thickness	Weight	CFM
	Warp	Weft	Warp	Weft	(mm)	(g/m2)	
PFM-Spunlace-01	0.3PET	0.3PET	16.5	16.5	0.5	358	471
PFM-Spunlace-02	0.25PET	0.25PET	23	21	0.57	322	549
PFM-Spunlace-03	0.25PET	0.38PET	22	20	1.27	608	1242
PFM-Spunlace-04	0.15PET	0.2PET	40	30.7	0.3	235	303
PFM-Spunlace-05	0.5PET	0.5(carbon) +0.6PET	22	13	1.99	1138	659
PFM-Spunlace-06	1PET	1PET	2.7	2.7	2.4	592	1574
PFM-Spunlace-07	0.50(carbon)	0.6PET	20	8	1.55	921	593
PFM-Spunlace-08	0.4PET	0.4	12.2	12.2	0.76	441	558
PFM-Spunlace-09	0.5PET	0.40(stainless steel)	9.5	10.5	1.2	1272	1050
PFM-Spunlace-10	0.22PET	0.35PET	29.5~30.5	16.5~17.5	0.81	510	455
PFM-Spunlace-11	0.22PET	0.25PET	29.5	22	0.56	330	508
PFM-Spunlace-12	0.24PET	0.45PET+0.47PA	29.5~30.5	14.5~15.5	0.99	470	415
Custom specification is available if you can't find the suitable size.							

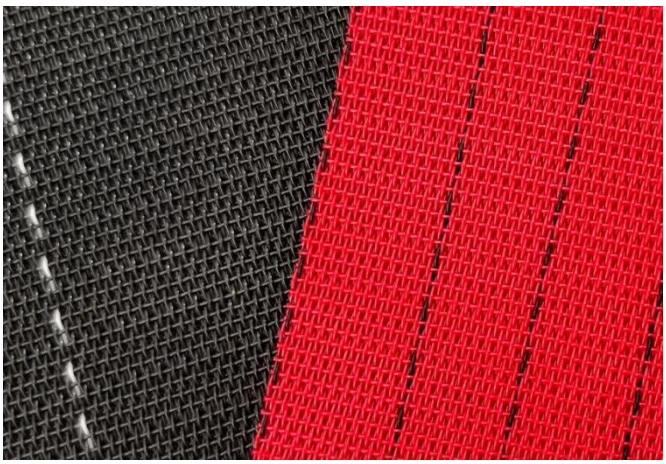
Polyester Mesh Belt for Spunbond / Meltblown Nonwoven Fabric

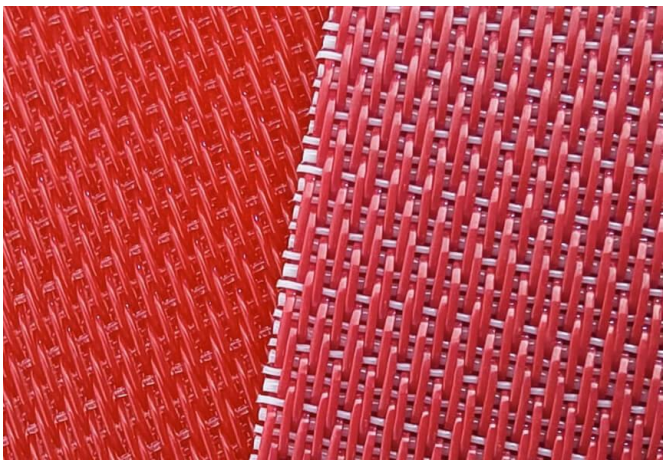
Description

Polyester mesh belts are essential components in the production of spunbond and meltblown nonwoven fabrics. These belts serve as the forming surface where molten polymer filaments are deposited, cooled, and bonded to create nonwoven materials widely used in hygiene products, medical textiles, filtration media, and more.

Spunbond/Meltblown Mesh Belt, also named Spunbond Nonwoven Formation Belt, Spunbond Nonwoven Forming Belt, Spunbond Spin Belt. Spunbond / Meltblown forming belts are specifically designed for use in the production of non-woven fabrics using the Spunbond/Meltblown process. These belts are an essential component of the production line and play a crucial role in ensuring the quality and consistency of the non-woven fabric. The nonwoven forming belts produced by PFM Screen offer good grip for the filaments and good release properties of the nonwoven on the forming belts at the belt ends.

The raw material of spunbonded non-woven fabric is PE or PP, which may generate static electricity during the production process. Therefore, we have designed a series of anti-static mesh belts to solve this problem.





Feature

1. High Strength & Dimensional Stability: Manufactured from high-strength polyester monofilament, these belts can withstand the high temperatures and mechanical stresses involved in nonwoven fabric production, ensuring consistent fabric quality.
2. Non-Stick Surface: Designed with a non-stick surface, these belts prevent the fabric from adhering during production, facilitating smooth operation and easy release of the nonwoven fabric.
3. High Porosity & Air Permeability: The belts are engineered with high porosity, allowing efficient air and liquid flow, which is crucial for the bonding and drying processes in nonwoven fabric production.
4. Anti-Static Properties: To address static electricity issues, especially when processing polypropylene (PP) or polyethylene (PE), some mesh belts are designed with anti-static features, ensuring smooth filament deposition and preventing fiber clumping.

Application

These belts are integral to the production of nonwoven fabrics used in medical, hygiene, filtration, and automotive applications. Polyester mesh belts are utilized in various nonwoven fabric manufacturing processes, including:

Spunbond (S): Continuous filaments are spun and laid onto the belt, forming a web that is bonded to create a fabric.

Meltblown (M): Fine fibers are produced by extruding molten polymer through fine nozzles, forming a web on the belt.

Spunmelt Combinations (e.g., SS, SXS, SSS,SMS, SSMS, SMMS, SMMMS, SSMMS): Combining spunbond and meltblown processes to produce fabrics with varying properties.

Specifications

Series	Model	Diameter (mm)		Density (wire/centimeter)		Air permeability (m3/m2h)
		Warp	Weft	Warp	Weft	
Antistatic	PFM-Spunbond-A8848	0.68PET+0.45Bronze	0.8PET	12	6.8	9887
	PFM-Spunbond-A8848-1	0.68PET+0.45Carbon	0.8PET	12.3	6.3	8500
	PFM-Spunbond-A22504	0.5PET+0.52Carbon	0.5PET	24	12	12000
Hydrolysis Resistance	PFM-Spunbond-HRF4106	0.55*0.38PET	0.6PET	20.5	10.5	9600
	PFM-Spunbond-HRR4106	0.5PET	0.6PET	18.5	11	9600
	PFM-Spunbond-HRF25870	0.40*0.60PET	0.40*0.70PET	21	13	10000
	PFM-Spunbond-HRF25890	0.42*0.62PET	0.40*0.80PET	21	12	11000
Spiral	PFM-Spunbond-Super loop	3.03PET	1.64PET	0.9	1.1	12000
	PFM-Spunbond-Large loop	2.45PET	1.4PET	0.7	0.9	6800
	PFM-Spunbond-Medium loop	2.45PET	1.31PET	0.7	0.9	4000
	PFM-Spunbond-Small loop	1.87PET	0.97PET	0.5	0.8	1920
Custom specification is available if you can't find the suitable size.						

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