



SILK

Analysis of Fiber and Textile 571-KQF-03

# SILK

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## SILK TROUSERS

Max Mara

Garment Type: trousers

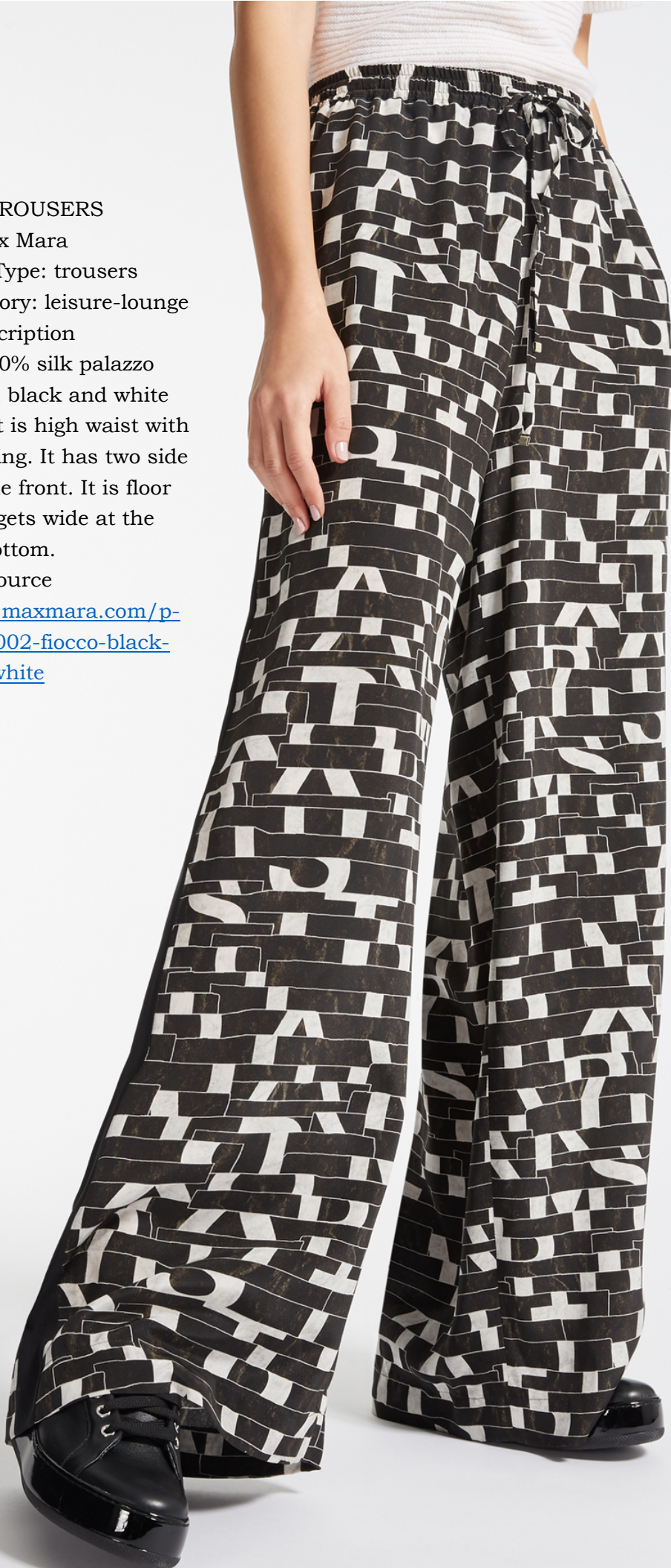
Garment Category: leisure-lounge

### Description

A pair of 100% silk palazzo trousers with black and white pattern print. It is high waist with elastic drawstring. It has two side pockets on the front. It is floor length and gets wide at the bottom.

Source

<https://world.maxmara.com/p-6131048206002-fiocco-black-white>



## SILK TROUSERS

### Explanation of Fiber Choice

Max Mara chose silk to produce these trousers. As a matter of fact, silk is always considered as a luxury fibre because of its high price. The luxurious choice of fiber matches Max Mara's luxury brand image well.

In addition, they chose silk because it is soft and light in weight. When it is used produce palazzo trousers, it tends to "fall naturally and hang delicately" (BALLENBERGER, Walt, Properties and Characteristics of Silk, 2018, <<http://www.fibre2fashion.com/industry-article/1710/properties-and-characteristics-of-silk>>) and creates beautiful effect. Compare to silk, other fabrics are too stiff and rigid to make this kind of trousers.

Moreover, silk has amazing next-to-skin comfort because of its softness, smoothness and low friction with skin. Trousers made from silk makes people feel very pleasant to wear.

Silk has good tenacity. This characteristic makes it available for trousers that can be wear everyday and as leisure-lounge.

Silk has nice elasticity and resilience. Wearer's don't need to worry about getting creased or wrinkled a lot. They can sit or move like they wish.

### Advantages

1. Silk is soft and light in weight, which makes the trouser fall elegantly and naturally.
2. Silk has good tenacity, which makes it available for trousers to be wear everyday.
3. Silk has nice elasticity and resilience. Trousers made from silk doesn't crease or wrinkle a lot.

### Disadvantages

1. Silk is difficult to clean and care. This may be a problem for trousers for everyday.
2. Silk is easy to be snagged. Wearers need to pay attention on keeping distance with sharp objects, especially when the trousers have wide bottom.
3. The white parts of silk trousers may get yellow when it is aged. It will damage the beauty of trousers.





## PRINTED SKIRT IN SILK

GEORGETTE

Dolce & Gabbana

Garment Type: skirt

Garment Category: casual wear

### Description

A 100% silk skirt decorated with colorful floral print. It has tubular silhouette. It is high waist with black elastic belt. It is pleated and ankle length. It has zipper closure at one side.

### Source

<https://store.dolcegabbana.com/en/women/printed-skirt-in-silk-georgette-black-F4A9NTHS1S7HNM62.html?cgid=women#q=silk&cgid=women&start=46>

## PRINTED SKIRT IN SILK GEORGETTE

### Explanation of Fiber Choice

Dolce & Gabbana chose silk to produce this skirt. Silk is always considered as a luxury fibre because of its high price. The luxurious choice of fiber matches the luxury brand image of Dolce & Gabbana well.

To keep a pleated dress in shape, the fabric need to have good resilience to come back from wrinkling and creasing. Silk has very nice extensibility. After being stretched or creased, it can quickly return to its original shape without damaging pleats or having a lot of wrinkles.

In addition, the dress is designed to be worn in various seasons. Silk is good at keep both warm and cold. Silk can keep cool in summer with its “cooling effect” (THEODORAKOPOULOS, Irini, Silk – Reduced). In winter, it also keeps an amount of warm air in skirt therefore keeps warmth in winter.

Silk is soft and light in weight. When it is used produce long skirt, it tends to “fall naturally and hang delicately” (BALLENBERGER, Walt, Properties and Characteristics of Silk, 2018, <[www.fibre2fashion.com/industry-article/1710/properties-and-characteristics-of-silk](http://www.fibre2fashion.com/industry-article/1710/properties-and-characteristics-of-silk)>). Skirt made from silk looks especially soft and flowy while walking.

### Advantages

1. Silk has nice resilience that helps to keep pleats on skirt in place.
2. Silk works for both warm and cool. This makes silk skirt wearable in various seasons.
3. Silk is soft and light in weight. Skirt made from silk has more flowy wearing effect compare to other fabrics.

### Disadvantages

1. Silk is hard to clean and care. This may be a problem for everyday wear skirt.
2. Silk can be snagged easily. This may damage the dress, especially when the skirt is long.



PRINTED SCARF 50 X 50

Dolce & Gabbana

Garment Type: accessory

Garment Category: casual

Description

A 100% silk square scarf decorated with rose print and black and white stripes around print.



Source

<https://store.dolcegabbana.com/en/women/printed-scarf-50-x-50-pink-FN093RGDH89HAH41.html?cgid=women#q=scarf&cgid=women&start=16>



## PRINTED SCARF

### Explanation of Fiber Choice

For this scarf, Dolce & Gabbana chooses the best fiber to produce, which is silk. This luxurious choice matches Dolce & Gabbana's luxury brand image well.

People usually wear scarf when the weather is cool or even slightly cold. A scarf made from silk can keep your neck warm because silk has nice thermal insulation. Although silk not heavy, it is compact enough to keep a layer of warm air between scarf and neck and to prevent cold air from coming in. The choice of silk makes being light in weight and warm at the same time.

In addition, silk has good dye performance. It is able to vividly show the rose print designed for the scarf. It also makes the scarf look amazingly beautiful and shiny with the unique luster and fineness of silk.

For neckwear, comfort is very important. This is also one of the reasons that Dolce & Gabbana chose to use silk. Silk is very soft and fine. It has amazing "next-to-skin comfort" (THEODORAKOPOULOS, Irini, Silk – Reduced). It will be very enjoyable to wear a scarf made from silk.

### Advantages

1. Silk is very fine and soft. Scarf made from silk has great next-to-skin comfort.
2. Silk can keep warm. Silk scarf can prevent people from coldness.
3. Silk is light. Silk scarf can make people feel warm without too much weight.
4. Silk has nice dye performance and shows patterns designed for the scarf nicely and vividly.
5. Silk has fine luster and shine. Scarf made from silk is more beautiful with that shiny effect.

### Disadvantages

1. Silk changes color when it meets "perspiration, deodorant sprays, or perfume" (THEODORAKOPOULOS, Irini, Silk – Reduced). A silk scarf is very likely to change color since people usually sweat and use perfume around neck.
2. Silk is sensitive. "Perspiration, deodorant sprays, or perfume" (THEODORAKOPOULOS, Irini, Silk – Reduced) can lead to embrittle.
3. Silk is hard to clean when it gets dirty. Improper treatment may destroy the scarf.



### PRINTED SILK DRESS

Dolce & Gabbana

Garment Type: dress

Garment Category: event wear

#### Description

A 100% silk dress with rose pattern and black and white stripes. It has tubular silhouette. It is fitted and close to the body. It is mid-calf length. It has square neckline. It has two straps and no sleeves. It's closure system is at center back and is fastened with zipper and a hook. It is cut at waist. It has flounced hem at the bottom.

#### Source

<https://store.dolcegabbana.com/en/women/printed-silk-dress-multicolor-F67M9TFSATZHWI10.html?cgid=women#q=silk&cgid=women&start=>



## PRINTED SILK DRESS

### Explanation of Fiber Choice

Dolce & Gabbana chose silk to produce this dress. This luxurious choice of fiber matches Dolce & Gabbana's luxury brand image well.

One of the reasons why they chose silk is because silk is elastic. Its "extensibility lies between 10% and 30%" (THEODORAKOPOULOS, Irini, *Silk – Reduced*). This makes silk a friendly choice for this closely fitted dress and makes it easier for wearers to be in this dress. Silk also has good resilience. Compare to other fine smooth fabrics, it is not very likely to crease, and wrinkles usually fall out by themselves. This allows wearer more freedom to sit and move as they wish.

For fitted dress that is close to body, it is necessary to make sure the fabric is comfort. Silk performs fairly well on next-to-skin comfort. It is very fine, soft and smooth, wearers will feel great in this dress.

Silk has good dye performance. It can show the rose print vividly and nicely. This printed silk dress is designed for spring/summer collection. Silk can help to keep wearers cool when the weather is hot. Because silk fabric contains only a small amount of enclosed air, "which lie smoothly on the skin" (THEODORAKOPOULOS, Irini, *Silk – Reduced*) and creates the feel of cool.

### Advantages

1. Silk has good elasticity, which makes it easier and more comfort to be in silk dress.
2. Silk also has good resilience. The dress made from silk is not likely to crease and wrinkles usually fall out by themselves.
3. Silk has great next-to-skin comfort, which makes it a proper choice to make fitted dress that are close to body.
4. Silk shows patterns designed for the dress nicely and vividly.

### Disadvantages

1. Silk is easy to be snagged. When wearing this silk dress, people need to be extra careful and stay away from sharp objects.
2. Silk changes color when it meets "perspiration, deodorant sprays, or perfume" (THEODORAKOPOULOS, Irini, *Silk – Reduced*). A 100% silk fitted dress is very likely to change color due to the damage of perspiration.
3. Fitted dress made from silk is easy to have abrasions due to wearer's walking and movements.

## PRINTED SILK SHIRT

Dolce & Gabbana

Garment Type: shirt

Garment Category: leisure-lounge

### Description

A 100% silk pajama shirt with rose pattern and black and white stripes. It has tubular silhouette. It is straight and hip length. It has lapel collar, long sleeves, and two patch pockets on the front at the bottom and one in front of breast. It has "single-breasted" (THEODORAKOPOULOS,

Irini, *Garment Description*) button closure at front.

Source

<https://store.dolcegabbana.com/en/women/printed-silk-shirt-multicolor-F5H06THS1P6HWI10.html?cgid=women#q=silk&cgid=women&start=19>





## PRINTED SILK SHIRT

### Explanation of Fiber Choice

This shirt is inspired by pyjamas. Dolce & Gabbana's designer went back to the origin of pyjama and chose silk to produce this garment, just like what people chose in the 1930s, when silk pyjamas firstly got popular. Silk and pyjamas has always been classic partners.

Silk is always a kind of luxurious fabric that is used to show status in the past. For Dolce & Gabbana, which is a luxury brand that aims rich people from higher classes, it is proper to provide garments made of this luxurious fabric for their customers.

The choice of silk is also closely related to its characteristics and properties. Silk is the "strongest fiber natural fiber" (THEODORAKOPOULOS, Irini, *Quick Notes - Silk*). It has relatively good tenacity. The strength and resistance of silk make it proper to make shirt for leisure-lounge. In addition, silk is not very easy to crease. People don't need to be extra careful when they wear silk shirt.

Silk is soft and smooth. Shirt made of silk has great next-to-skin comfort. This makes people feel great to wear this silk shirt.

This shirt is designed to be worn in various seasons, so they chose silk that works well on both keep cool and warm. During spring/summer, silk works well on keeping cool because it can insulate thermal for coolness and absorb moisture. Firstly, it keeps less hot air between body and the fabric compare to other fabrics, and this makes people feel cooler. Secondly, when people sweat, silk absorbs moisture quickly and dissipate it without making people feel wet, which also makes people feel less hot. In autumn/winter, silk also works to keep warm. Because of its compactness, it helps to keep a layer of warm air between shirt and skin and prevent them from escaping.

### Advantages

1. Silk has good thermal insulation for both coolness and warm. This makes silk shirt a nice choice for various seasons.
2. Silk can absorb moisture quickly without letting people feel wet, which makes it proper for spring/summer when people sweat a lot.
3. Silk feels good on the skin. Shirt made of silk has great next-to-skin comfort.

### Disadvantages

1. Silk is likely to change color because of "perspiration deodorant sprays, or perfume" (THEODORAKOPOULOS, Irini, *Silk - Reduced*). People need to avoid these things when they wear silk shirt to keep it in color.
2. Silk fiber can be embrittled with perspiration deodorant sprays, or perfume. (THEODORAKOPOULOS, Irini, *Silk - Reduced*) People need to avoid these things when they wear silk shirt to keep its strength.
3. Silk is difficult to care. Improper washing, drying and ironing may ruin silk shirts. It requires lots of efforts to take care of one silk shirt.

	Conclusion			
	Advantages	Comments	Disadvantages	Comments
1	Silk has good thermal insulation for both coolness and warmth.	It can be worn in various seasons.	Silk is difficult to clean and care.	There are lots of limitations and risk to wash silk by hand. Professional dry clean is the best way to clean it. Without proper caring, silk may have color changes and be embrittled.
2	Silk absorbs moisture quickly without letting people feel wet.	Wearing silk makes people feel cooler in summer because it can absorb perspiration quickly. However, perspiration is harmful for silk.	Silk is likely to change color because of perspiration, deodorant sprays, or perfume.	Although silk absorbs perspiration well and makes people feel cooler, perspiration damages silk at the same time. People need to pay attention to avoid having these things on silk garments.
3	Silk has great nice-to-skin comfort.	This characteristic makes people feel pleasant to wear. It is very suitable for producing fitted garments that are close to the body.	Silk fiber can be embrittled with perspiration, deodorant sprays, or perfume.	People need to pay attention to avoid having these things on silk garments.
4	Silk is light in weight.	It can keep people warm without too much weight. A silk scarf is very useful for preventing people from cold wind.	Silk is easy to be snagged.	Wearers need to be extra careful to stay away from sharp objects that can snag and damage silk.
5	Silk has fine luster and shine.	Garments made from silk have amazing beautiful luster and shine.	Silk turns yellow with age.	When silk gets old, it's likely to turn yellow, especially for silk with white color.
6	Silk is easy to dye and it performs colors and print well.	Garments and accessories made from silk show prints nicely and vividly.	Silk can be weakened and damaged by sunlight.	Silk can protect people from harmful rays from sunlight, but it also can be hurt by sunlight.
7	Silk has good elasticity.	Garments made from it allow people some freedom to move and stretch. This can be seen especially within fitted garments.	The production of silk is not ethical.	Because it stopped the reborn process of cocoons. This may be seen as murder.
8	Silk has good resilience. It can come back to shape from crease or wrinkle.	People don't need worry about the change of shape when they wear silk garments. It is not likely to crease and it can come back from wrinkling.		
9	Silk has good tenacity.	It is the strongest natural fiber. It makes silk available for daily wear.		



## Bibliography

BALLENBERGER, Walt, *Properties and Characteristics of Silk*, 2018.

<[www.fibre2fashion.com/industry-article/1710/properties-and-characteristics-of-silk](http://www.fibre2fashion.com/industry-article/1710/properties-and-characteristics-of-silk)>

KNOWLEDGE OF TEXTILE, *Silk Advantages & Disadvantages*, no year information available.

<<https://knowledgetextile.wordpress.com/more/advantages-disadvantages/silk-advantages-and-disadvantages/>>

THEODORAKOPOULOS, Irini, *Garment Description*.

THEODORAKOPOULOS, Irini, *Silk – Reduced*.

THEODORAKOPOULOS, Irini, *Quick Notes - Silk*

## Source of Images

Cover Page Image

[https://wallpaperscraft.com/download/silk\\_white\\_fabric\\_softness\\_7321/2560x1600](https://wallpaperscraft.com/download/silk_white_fabric_softness_7321/2560x1600)

DOLCE & GABBANA, printed silk shirt, Love Christmas Collection.

<https://store.dolcegabbana.com/en/women/printed-silk-shirt-multicolor-F5H06THS1P6HWI10.html?cgid=women#q=silk&cgid=women&start=19>

DOLCE & GABBANA, printed scarf 50 X 50, Love Christmas Collection.

<https://store.dolcegabbana.com/en/women/printed-scarf-50-x-50-pink-FN093RGDH89HAH41.html?cgid=women#q=scarf&cgid=women&start=16>

DOLCE & GABBANA, printed silk dress, Love Christmas Collection.

<https://store.dolcegabbana.com/en/women/printed-silk-dress-multicolor-F67M9TFSATZHWI10.html?cgid=women#q=silk&cgid=women&start=16>

DOLCE & GABBANA, printed skirt in silk, Spring Summer 2018 Collection.

<https://store.dolcegabbana.com/en/women/printed-skirt-in-silk-georgette-black-F4A9NTHS1S7HNM62.html?cgid=women#q=silk&cgid=women&start=46>

MAX MARA, silk trousers, Studio Daily Collection.

<https://world.maxmara.com/p-6131048206002-fiocco-black-white>