

## POLYPROPYLENE FIBER IN TEXTILES – CONCLUDING PART

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### Functionality of PP Fiber

The main benefit of polypropylene as a fabric is its moisture transfer abilities. This fiber does not absorb any moisture; moisture passes through the fiber completely. This feature allows moisture that is exuded while wearing a polypropylene garment to evaporate much more quickly than it would with a moisture-retaining garment. Therefore, this fabric is popular in textiles that are worn close to the skin.

This type of fabric is used to make top sheets for diapers, which are the components of diapers that make direct contact with skin. By using polypropylene for this diaper component, it is assured that no moisture will remain in contact with a baby's skin, hence reduces the chances of rashes formation. Polypropylene fabric is desirable in the area of sportswear due to its moisture-transferring properties.



The conductivity of this fiber is lower than that of most synthetic fibers; hence it is suited for cold weather wear. In addition, this textile's susceptibility to UV damage makes it a poor choice for any type of outerwear.

These fabrics do not get dirty because of its inherent stain resistant property. Therefore, these fibers are suitable for upholstery.

### Summary

Propylene fibers have wide range of usages in different areas of textile industry. Due to its unique features, these are one of the preferred synthetic fibers. However, it has its own limitation too. Like the inability to wash this fabric with hot water to remove odors from the garment, their susceptibility to UV damage etc. This makes them less desirable in some areas.



Like other synthetic fibers, the manufacturing and use of polypropylene has certain negative impact on the environment. Since Polypropylene fibers are derived from hydrocarbon fuels, the manufacture of this substance is not sustainable and lot of energy is required to acquire these substances.

Also, good amount of waste is produced in the process of manufacturing polypropylene fibers. Though the excess hydrocarbon fuels that are left over after the propylene extraction process may be reused for different other purposes. However, they may also be discarded; this also causes a negative environmental impact. Various toxic chemicals are also used in the polypropylene fiber manufacturing process. The contaminated water and air that are emitted during PP fiber production, enters the ecosystem and negatively affect the atmosphere and mankind.

Wishing you a great week ahead!

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