



Coating Tomorrow's Innovations

Silk

Trelleborg offers a wide variety of substrates, providing a myriad of possibilities to expertly pair material properties to customers' specific applications needs. Our substrates can be knitted, woven or non-woven depending on the specific performance attributes required for a given application.



Silk is a naturally occurring fiber, composed primarily of an insoluble protein called fibroin. It is most commonly extracted from silkworms, the larvae of *Bombyx Mori*, a domesticated species of moth.

Silk is arguably responsible for opening up the first worldwide marketplace and connecting the Eastern and Western worlds.

Silk is generally used in clothing manufacture but it has several industrial uses, such as parachutes, bicycle tires, and bed covers.

Properties	Value
Tensile Strength (MPa)	1750
Elongation at Break (%)	36
Specific Gravity	1.17

Substrate/Fiber Characteristics

- Natural fiber, created by the silkworm
- Thinnest of all-natural fibers, fair abrasion resistance, poor resistance to sunlight

Common Substrate/Fiber Uses

Gaskets and seals, mostly used in apparel and home fashion



At Trelleborg, our eyes are on tomorrow as our in-house expert technical teams work in partnership with an increasing range of customers to bring industry-changing ideas to actualization with coated materials- whether it's your concept or ours.
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