



TexStyles®
Graphic Fabrics



NatureSeries®

Powered by CiCLO®

Beaver Paper's new TexStyles® *NatureSeries™* Soft Knit is a revolutionary new line of fabrics made with cutting-edge sustainable technology - CiCLO® Fibers.

Fabrics made with CiCLO® fibers and yarn reduce the persistence of plastic microfiber pollution in our oceans and synthetic textile accumulation in landfills.

CiCLO® Additive Technology

CiCLO® technology is a sustainable textiles ingredient in the form of an additive that is combined with polyester and nylon during melt extrusion at the very beginning of the fiber making process. CiCLO® additive creates millions of biodegradable spots in the matrix of the plastic, where microbes that naturally exist in certain environments can break down the materials just like they do with natural fibers.

How CiCLO® Fibers Work

CiCLO® fibers have the performance characteristics of traditional plastic-based fibers but behave more like natural fibers if they end up in the environment. Third party laboratory studies using internationally recognized ASTM Test Methods show greatly accelerated rates of biodegradation compared to traditional synthetics in anaerobic landfill conditions, sea water, and wastewater treatment plant sludge.

Durability

Textiles made with CiCLO® fibers look and feel like regular synthetics and can be engineered with high performance characteristics and finishes. Fibers, yarns and finished fabrics have been fatigue tested to ensure traits such as tenacity, pilling resistance and wicking are unchanged.

Certified Safe

The chemistry used to make CiCLO® Fibers is proven to be safe for use in sustainable textiles by a third party certification called OEKO-TEX ECO PASSPORT. They check to make sure that each substance meets industry statutory requirements and that it is not harmful to human health.

Why is This Important?

Polyester and nylon fibers are made from plastic. Like most plastics, they do not naturally biodegrade. Small fibers shed from textiles during use and care and are nearly impossible to recover, ending up as persistent pollutants in our oceans. And, since mass textile recycling is not yet available, almost all textiles eventually wind up in landfills.





35% of microplastics entering the ocean come via synthetic materials

Enhanced Biodegradation

Products made with polyester CiCLO® fibers show greatly enhanced rates of biodegradation versus traditional polyester fibers in the same timeframes.

Certified Safe

Chemistry used to make CiCLO® fiber is ECO PASSPORT by OEKO-TEX certified. Fabrics made with CiCLO® look and wear like any other, and can be engineered with high-performance finishes.



44 million pounds of synthetic textiles end up in U.S. landfills each day.

Frequently Asked Questions

How do CiCLO® fibers reduce plastic pollution?

CiCLO fibers reduce plastic pollution in two ways: Fabrics made from polyester, nylon and many other synthetics are actually plastic. As with almost all fabrics, they can shed small fibers, known as microfibers, when worn and washed. These plastic fibers are very small, difficult to recover and wind up in our oceans. Most plastic doesn't naturally biodegrade, but fibers made with CiCLO® will eventually biodegrade in sea water just like wool would. Unfortunately, mass apparel recycling is not available today and most of it is thrown away when no longer wanted, piling up in landfills. Like in sea water, fibers made with CiCLO® will eventually biodegrade in landfill conditions.

Are CiCLO® fibers less durable or will they biodegrade while they are being worn or used?

CiCLO® fibers have no impact other than to allow the microbes that naturally exist in the environment to be able to biodegrade the material just like they do for natural materials like wool. The biodegradation process takes a long time and will not happen during use or care just like wool doesn't biodegrade during use or care.

Will an entire product biodegrade if it only uses a portion of CiCLO® fibers?

CiCLO® fibers may be blended with other materials like cotton, wool, tencel, spandex or any other textile fiber. The presence of CiCLO® fibers in a product will not have any impact on other fiber types that it may be blended with for yarn.

What happens to the dyes on fabrics that are made with CiCLO® fibers?

Fabrics made with CiCLO® fibers have been tested with various finishes and have not found a chemistry that hinders biodegradation. CiCLO® textiles and associated textile dyes that satisfy 3rd party certifications such as bluesign, OEKO-TEX or Cradle to Cradle will safely be biodegraded, decolorized and mineralized into basic chemical compounds that are harmless.

*Sources: International Union for Conservation of Nature, Parkdale Mills, and United States Environmental Protection Agency