

CiCLO® FLAG 110 FR

LESS MICROPLASTICS, SAME QUALITY

CiCLO® Technology is an innovative solution that helps synthetic fibers, such as polyester, behave more like natural materials at the end of their life cycle. During the production process, a special additive is incorporated, enabling microorganisms to recognize and break down the material when it ends up in soil, wastewater, or landfill.

Traditional flag fabrics contribute significantly to microplastic pollution. Flags are exposed to the elements every day and continuously shed small synthetic fibers. These microplastics are difficult to recover and quickly spread throughout the environment. CiCLO® breaks this pattern: the fibers do not persist as permanent microplastics but are broken down by microorganisms in natural environments such as soil and marine ecosystems.

While conventional polyester can lose up to 25% of its weight as microplastics, CiCLO® is designed to significantly reduce this impact. This makes it one of the most sustainable alternatives within the flag industry.

CiCLO® Flag 110 FR

TTS introduces a new generation of flags manufactured using 100% CiCLO® Technology. With the CiCLO® Flag 110 FR, we combine sustainability with the quality you have come to expect from us. The flags remain strong, durable, and colorfast, and perform reliably under a wide range of weather conditions.

At the same time, the environmental impact at the end of their lifespan is significantly reduced. This makes the flag not only a high-quality choice for visibility and appearance, but also a conscious step toward more sustainable use of materials.



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Strong Flags with More Sustainable Material

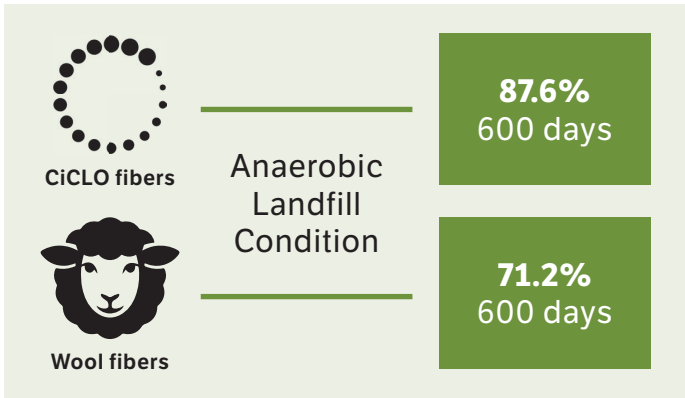
Independent testing according to ASTM standards shows that CiCLO® fibers can biodegrade by up to approximately 90%.

Thanks to the special fiber structure, this results in:

- Up to 96% fewer microplastics than standard flag fabric
- Approximately 92% degradation in seawater
- Approximately 91% degradation in soil

Traditional synthetic fibers remain largely intact under the same conditions and therefore contribute to the accumulation of microplastics.

CiCLO® FIBERS ARE PROVEN TO BIODEGRADE AT ACCELERATED RATES			
Environment	Days	CiCLO® fiber biodegradation	Untreated fiber biodegradation
Waste water treatment plant sludge - ASTM DS210	847	88%	0%
Soil - ASTM D5988	1,171	91%	3%
Seawater - ASTM D6691	844	92%	5%
Anaerobic digester (Landfill) - ASTM D5511	1,278	91%	6%



CiCLO fibers have a degradation time similar to wool fibers.