

Thiolon XP PRO™

Xtended Play™ fiber

Product Information

Thiolon XP PRO™ - the next level in high-performance fiber technology.

Highly utilized synthetic turf systems require a fibrillated grass fiber tough enough to stand-up to constant wear. Thiolon XP PRO has been specifically designed to withstand intense use while retaining the softness and playing characteristics today's players desire. Developed with TenCate's exclusive Xtended Play fiber technology, Thiolon XP PRO is far more resistant to natural wear than any other fibrillated grass fiber.

Process and Pattern

Two factors set Thiolon XP PRO apart as the most advanced fibrillated fiber available today: Process and Pattern. Thiolon XP PRO is manufactured through a proprietary slit-film extrusion process and features a more narrow fibrillation pattern compared to other third generation turf fibers. Generally designated as a "long slit" or "parallel" type fiber, Thiolon XP PRO's unique properties result in a grass fiber with enhanced durability and increased comfort and safety.

Durability

The reverse page contains close-up images of Thiolon XP PRO and Thiolon LSR™ fibers after having been subjected to the LISPORT® test method (also known as the studded roll test). Unlike the performance of other fibrillated grass fibers, Thiolon XP PRO remains intact and split-free after 8,000 cycles of testing. These results far exceed the 5,000 cycle FIFA 2 star minimum, widely regarded as the industry standard for synthetic sports turf systems, and demonstrate the exceptional durability of Thiolon XP PRO.

Comfort and Safety

Maximizing player comfort requires a grass fiber with a soft hand and a low sliding resistance. Unlike most other fibrillated grass fibers, Thiolon XP PRO makes it possible for players to safely slide on synthetic turf without the risk of skin burn injuries. With its more narrow fibrils and Lower Sliding Resistance™ polyethylene, Thiolon XP PRO offers superior player comfort with the proven performance of XP fiber technology.

Split Resistant

Ordinary fibrillated grass fibers experience secondary fibrillation or splitting as a result of normal wear. Over time, this fiber splitting can lead to a rather unnatural and worn looking surface. Thiolon XP PRO, with its long-slit pattern and patented technology, resists secondary fibrillation nearly 4x better than other fibrillated grass fibers (see reverse for results).

Natural Look

Thiolon XP PRO achieves the look and coverage of natural grass through its distinctive fibrillation pattern. The pattern's dense profile is engineered to split into 10 to 12 fibrils per fiber, resulting in a more open structure. Thiolon XP PRO offers the look of a mono-filament with the processability of a fibrillated fiber.

Thiolon XP PRO Technical Specs

Basic polymer: Polyethylene (PE)

Manifestation: Parallel/long slit

Overall denier: 8,000

Fiber thickness: 100 micron

Fiber width: 9 mm

Tensile strength: 85 N

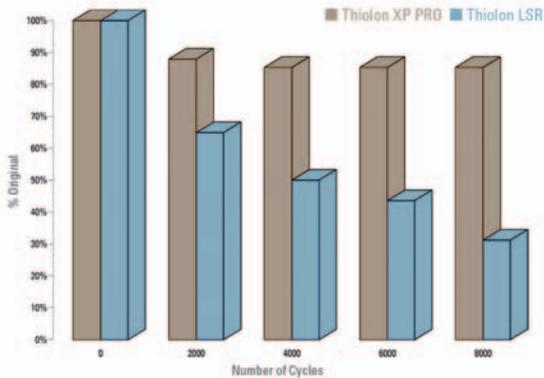
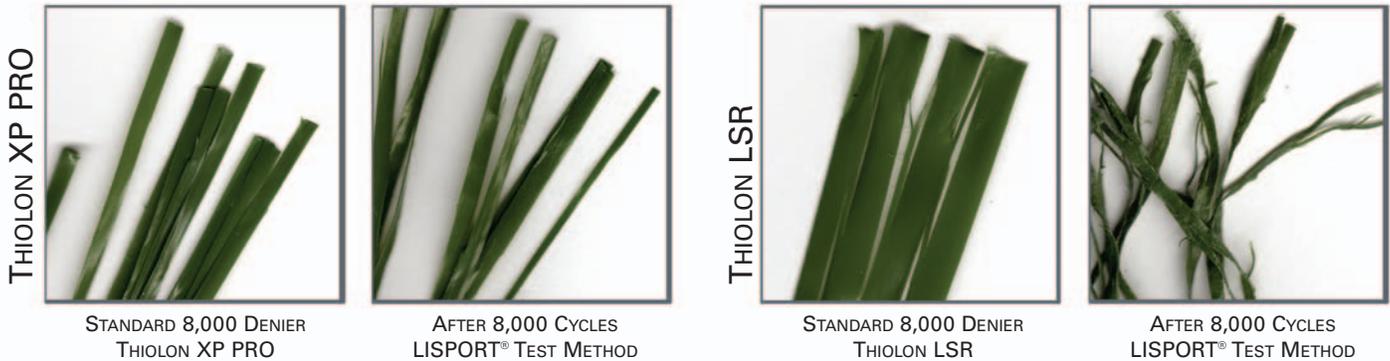
Elongation at break: 75%

Thiolon XP PRO is also available in 10,000 denier.

Benefits of Thiolon XP PRO

- Highly Durable
- Split Resistant
- More Natural Look
- Comfort & Safety

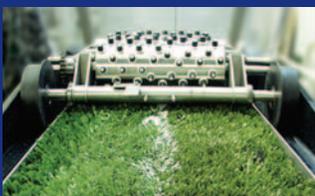
Product Information



# OF CYCLES	THIOLON XP PRO™		Thiolon LSR™	
	AVG. FIBER SIZE, mm	% ORIGINAL	AVG. FIBER SIZE, mm	% ORIGINAL
0	1.366	100.0	1.617	100.0
2000	1.200	87.9	1.049	64.9
4000	1.156	85.3	0.808	50.0
6000	1.156	85.3	0.705	43.6
8000	1.156	85.3	0.504	31.2

Proven Performance

Scientific testing confirms that Thiolon XP PRO offers four times the wear resistance as Thiolon LSR and other standard fibrillated products. The individual fibrils retain their size and shape without splitting or fraying.



LISPORT® Test Method

The LISPORT® or studded roll test method (developed by Labosport) provides a visual indication of how a synthetic grass system will age over time as a result of typical usage by players on the field.

For this test, a sample of synthetic grass is in-filled with rubber and/or sand and two heavy rolls equipped with numerous studs, similar to those found on the typical studded athletic shoe, are rolled back and forth over the surface.

To avoid reoccurring impact on exactly the same places, the two rolls move with different speeds and, at the same time, the synthetic grass specimen is moved slowly from left to right.



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