

TECHNICAL BRIEF

BUILT FOR PLAYGROUNDS:

Engineered Synthetic
Turf Construction for
Lasting Durability



PLAYGROUND GRASS™



by ForeverLawn®

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HOW PLAYGROUND GRASS BY FOREVERLAWN IS BUILT FOR PERFORMANCE

At ForeverLawn, we take a scientific and engineered approach to synthetic turf construction. We don't just add more fibers—we design systems for maximized resilience, durability, and optimized long-term performance in high-traffic play environments.

SLIT FILM FIBERS FOR RESILIENCE AND WEAR RESISTANCE

- We use slit film polyethylene fibers as our primary blade because they are specifically designed to withstand repeated impact and friction.
- Unlike monofilament fibers, slit film fibers are engineered to split and unfurl in a controlled manner, reducing wear patterns and enhancing longevity.





NYLON THATCH FOR STABILITY AND PERFORMANCE

- Our nylon thatch layer adds an extra level of strength and resilience that monofilament-only product cannot match.
- Nylon has superior memory and recovery properties, meaning the turf fibers bounce back even after continuous play and compression.
- Competitors using monofilament-only designs struggle with blade recovery, leading to premature matting, flattening, and performance degradation.

THE MYTH OF "MORE FIBER = MORE DURABILITY"

Many turf companies market higher face weights (more fiber per square yard) as a sign of superior durability. However, the Synthetic Turf Council (STC) has clarified that construction quality is far more important than face weight alone.

- Simply packing more monofilament fibers into the face of the turf does not make it more durable—it just adds bulk.
- Without the right fiber type, tufting gauge, and blade support system, these products will still wear down faster in high-traffic playground applications.
- More fiber in a poor construction can actually expedite matting and make the surface harder to maintain over time.
- Products with a heavy face weight can create an unnatural shifting under foot.

HIGH-PERFORMANCE TUFTING & BACKING SYSTEM

- Meticulous tufting construction is what truly determines a product's long-term strength. Our tufting gauge, blade type, and blade count are intentionally engineered to balance density, durability, performance, and appearance.
- We use a high-performance backing system that fully encapsulates and locks fibers in place, ensuring the product holds up under heavy use, repeated impact, and weather exposure.
- Competitors may use lower-quality backings leaving tufts exposed which allow fibers to loosen over time, leading to faster wear and blades shedding or falling out.

EDUCATING PARK DIRECTORS, SCHOOLS, AND ARCHITECTS

Unfortunately, decision-makers in the industry—such as school administrators, architects, and park directors—are often misled by marketing claims that emphasize face weight over quality product engineering

- In reality, fiber construction, tufting design, and backing performance define how long the turf will truly last in high-use environments and better mimic a natural grass surface in terms of movement and play.
- Instead of simply looking at fiber quantity, specifiers should be educated on:
 - Blade resilience (slit film vs. monofilament)
 - Backing strength (does it lock in and protect fiber integrity over time?)
 - Traffic and wear patterns (is the turf built for heavy traffic and the performance requirements of impact zones?)





CONCLUSION: ENGINEERING QUALITY WINS OVER FIBER QUANTITY

- **Built for Play:** Playground Grass is specifically engineered for playground environments, whereas competitors repurpose sports turf and landscaping technology.
- **Proven Durability:** Over 20 million square feet of Playground Grass has been installed in parks, schools, and daycare centers across North America.
- **Strategic Construction:** Designed by experienced team developing playground-specific turf for over 20 years. Crafted with specific select fibers, tufting, blending, and premium backing for lasting performance.
- **Going Beyond Face Weight:** Unlike companies who consider adding more fiber an upgrade, Playground Grass prioritizes structural integrity, making it a smarter long-term investment.

