Cascadia
SPORT SYSTEMS
Custom sport **solutions**

NEXXFIELD

REVERSE

THE NEXT EVOLUTION IN THE TURF INDUSTRY

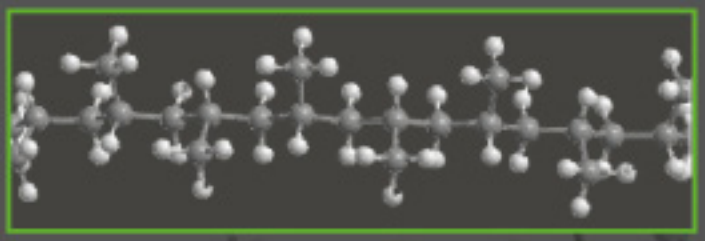
US Patent application: 20160265170

CHOOSE THE RIGHT TYPE OF FIBER

POLYETHYLENE

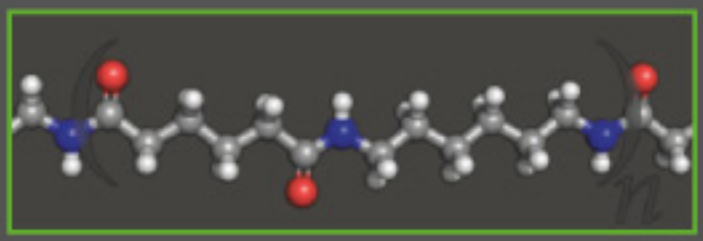
PE yarn fiber is very soft of good elasticity. The PE artificial grass is perfect for sports with impacts, such as football, American football, soccer, rugby football, Australia rules football, etc. The weather ability and aging resistance are also better than POLYPROPYLENE.

POLYPROPYLENE



The PP yarn fiber is hard and tough, the elasticity and cushion performance is less than PE. The poor wear resistance and anti-aging performance determine the lifespan of PP is not as good as PE.

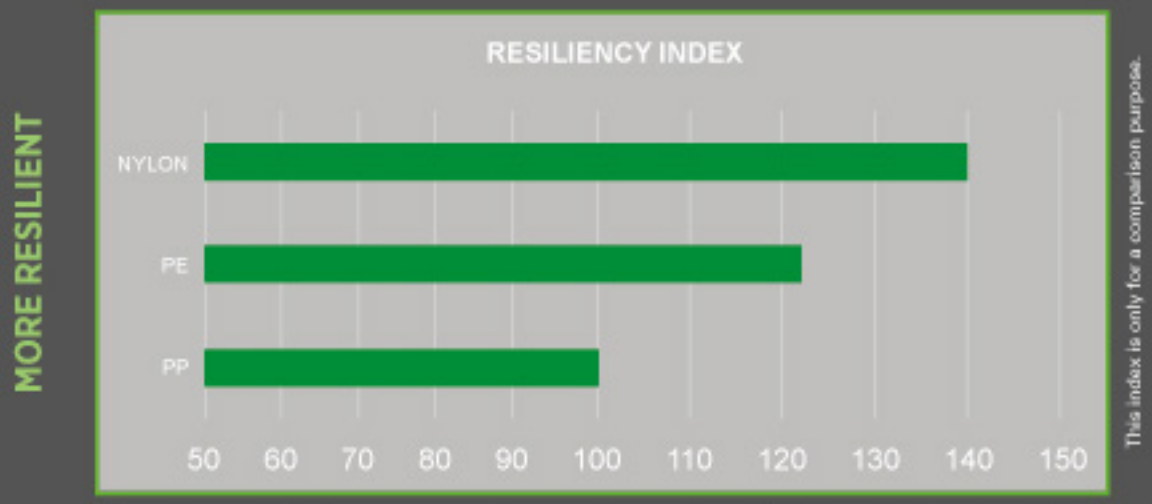
POLYAMYDE (NYLON)



The PA fiber can be hard and is rarely used for sports with greater impact and sliding. Beyond that, the artificial grass has good resilience, elasticity, cushion performance, wear resistance, anti-aging performance, etc. The PA price is higher than PE and PP.

WHY NYLON THATCH ARE BETTER?

Artificial grass that's made using **nylon fibres is 40% more resilient than grass made from polyethylene and 22% more resilient than polypropylene grass**. This is not only because nylon is the strongest of the three fibres, it's also because it has a much higher melting point.



During hot summer days, the sun's heat warm up polypropylene and polyethylene to the extent that the fibres become pliable. This pliability causes a weakness in the fibres and subsequent heavy use can cause long term damage.

Throughout the textile industry, it's well known that nylon is the strongest type of plastic fibre. **Nylon is 26% stronger than polypropylene and 33% stronger than polyethylene**.

The strength of nylon makes it a fantastic choice for manufacturing artificial grass court as it will outperform and outlast other types of synthetic fibre, allowing it to stand up to heavy use.

Better for the Environment

Because nylon has a far longer life cycle, the frequency with which you'll need to replace your artificial lawn is greatly reduced, thereby resulting in less fake grass going to landfill sites.

Nexxfield has a proven record of highly successful innovations with its **X-Gen turf systems** including the **E2 modular systems** and underlayment for sports fields. **Nexxfield** is now proud to present our patent pending **REVERSE** Series synthetic turf.

REVERSE

The REVERSE design achieves the ideal ratio of face yarn to base yarn for optimal traction, stability, comfort, and softness on skin. The REVERSE series proves that a turf system will perform well without infill and can outperform natural and infill systems.

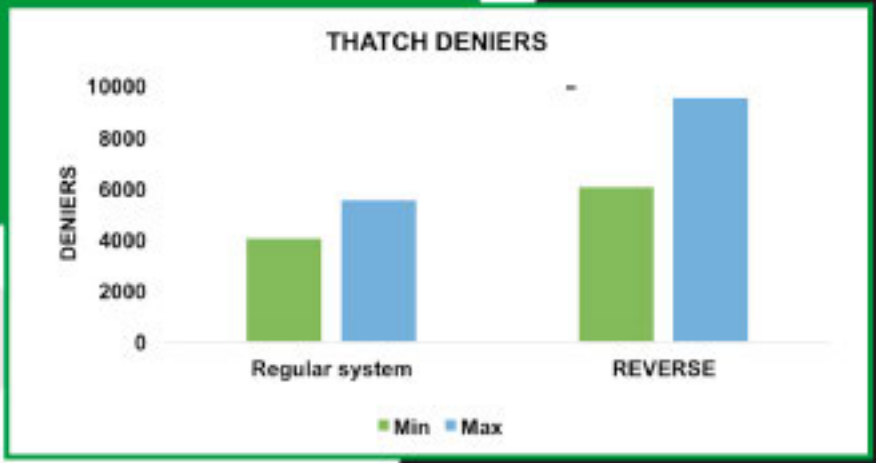
How does it work?

By achieving the necessary replacement of an infill by a suitable ration of base fiber to face fiber. That's all!

High Denier Thatch Zone Fiber

Nexxfield worked for more than two years to find the right turf design by developing a High Denier Thatch Zone fiber with a high bulk texture in combination with a lower denier face fiber in a higher density configuration.

- High denier thatch fiber
- Highly texturized thatch fiber
- High resiliency thatch PA fiber



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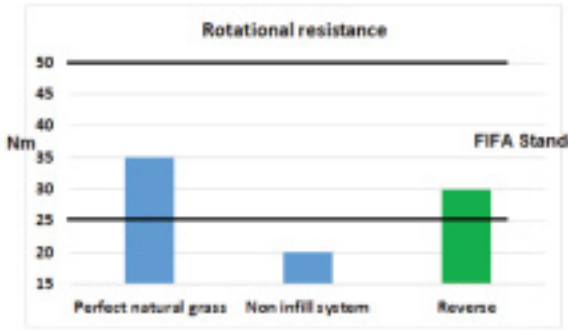
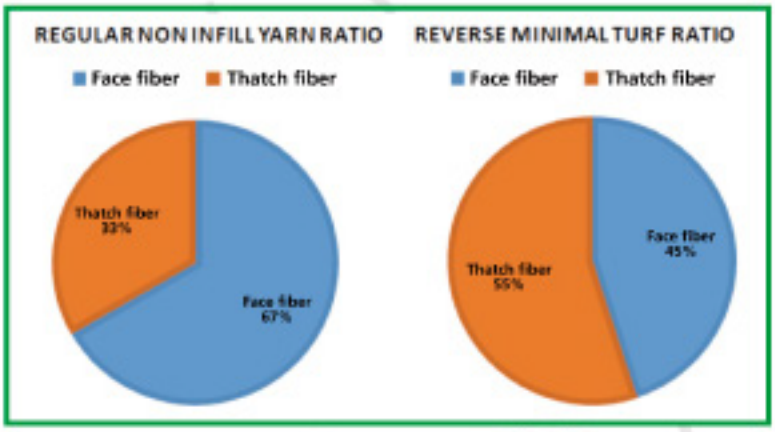


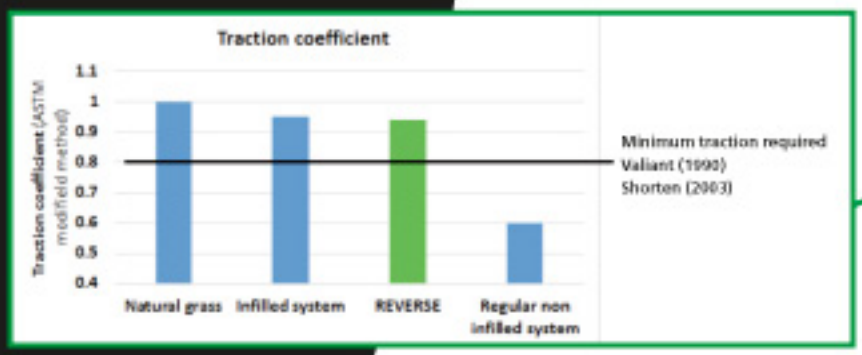
Higher Total Thatch Ratio

To achieve this perfect balance between shoe traction and stability, the REVERSE system is composed of a unique patent pending ratio of more than 50% of thatch zone yarn.



High Performance Traction Without Usage of Infill

Internal tests performed at the Nexxfield R&D laboratory showed that the REVERSE systems performed as well as natural turf.



- Lower Thatch zone ratio
- Low resilience fiber in PE
- Low Denier Thatch zone = low durability
- Don't meets FIFA and ASTM standards
- Risk of foot lock
- High fiber flatness

- Min. 20% more of Thatch zone for min. 51% of the total system weight
- No infill required
- High resiliency PA polymer
- High Denier Thatch zone = high durability
- Traction results meets FIFA and ASTM standards
- Low risk of foot lock
- Low fiber flatness
- Patent pending

NEXXFIELD

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NEXXFIELD
EXCEED PLAYERS EXPECTATIONS