



# PROFESSIONAL ARTIFICIAL TURF SUPPLIER & SERVICE PROVIDER

*hypresin*

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**HYPRESIN** adheres to the concept of professionalism, ingenuity and environmental protection, and strives to provide users with excellent products and services.

## COMPANY INTRODUCTION



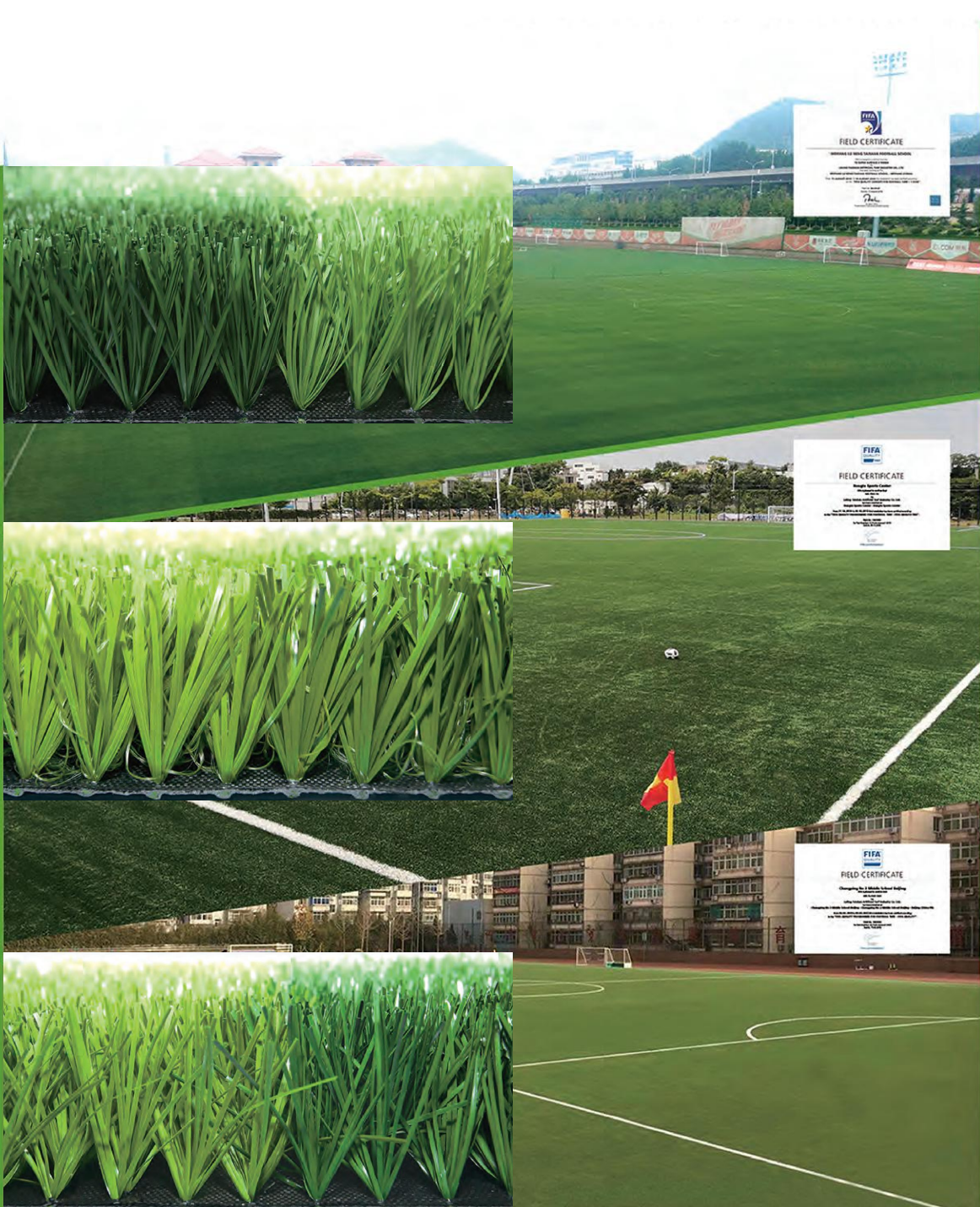
Hypresin(Chongqing) Enterprises Development Co., Ltd. (HYPRESIN for short), is committed to the research and development, production and sales of sports venues; mainly engaged in sports artificial turf, leisure landscape artificial turf, artificial turf for kindergartens, etc., and assembly Sports flooring, rubber products, etc.

HYPRESIN adheres to the concept of professionalism, ingenuity and environmental protection, pays attention to environmental protection & health in the fields of product material selection, process research and development, production and other fields, but also pays more attention to the physical properties of its products, pays attention to details in product production, and spends great efforts in research and development of its human body. Engineering principles, and strive to provide users with better products and services.

The company has a number of modern professional production lines, which can produce pile heights of 8-70mm and gauges of 5/32, 3/16, 1/2, 5/16, 1/4, 3/8, 5/8, 3 /4 and other specifications, various types of artificial turf with a maximum width of 5 meters. Tufting process can choose "Straight" type needle or "S" type needle. The type of adhesive can be divided into two types: PU adhesive or styrene-butadiene adhesive.

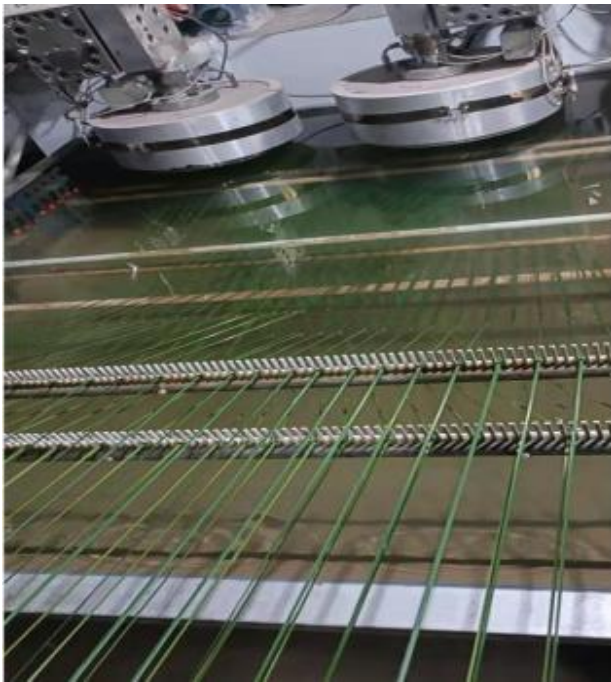
In the future, HYPRESIN will do its best to integrate user experience with enterprise development, and work with users to create a better future.

# FIFA



- **INGENUITY**
- **PRAGMATISM**
- **R&D**
- **MANUFACTURING**

Ingenuity, do a good job in every link, take care of the quality details of each process, continue to innovate and improve, and lead the market trend.



# PROFESSIONAL PRACTICE MARKETING & SERVICE

While being pragmatic, practical and professional, we continue to pursue experience and usability, constantly reform and improve, and wholeheartedly provide users with high-quality, high-performance, cost-effective environmentally friendly products, conform to the trend of the times, energy-saving and innovative sports materials for stadium facilities, Leisure landscape materials and professional services.



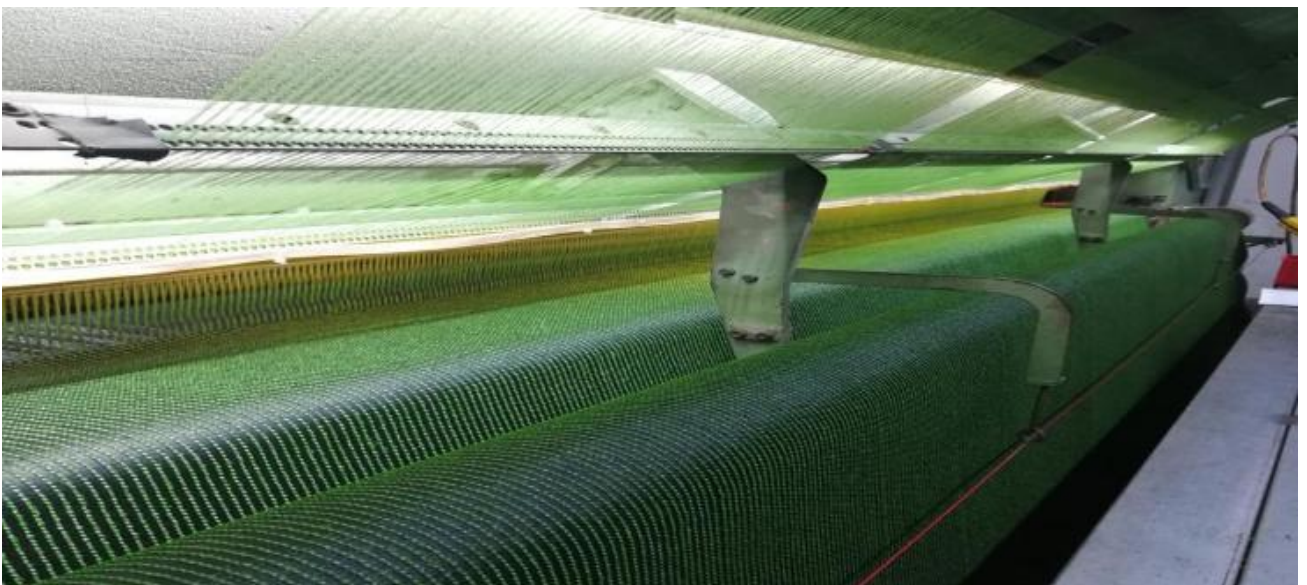
# GRASS SILK PRODUCTION CONTROL PROCESS

1. Purchase and testing of raw materials (PE polyethylene, PP polypropylene, anti-aging and UV additives, base fabric PP woven fabric, glue, etc.)
2. Grass silk production process and testing (automatic suction - online twisting).
3. Grass breaking force test--resilience test--color comparison test.



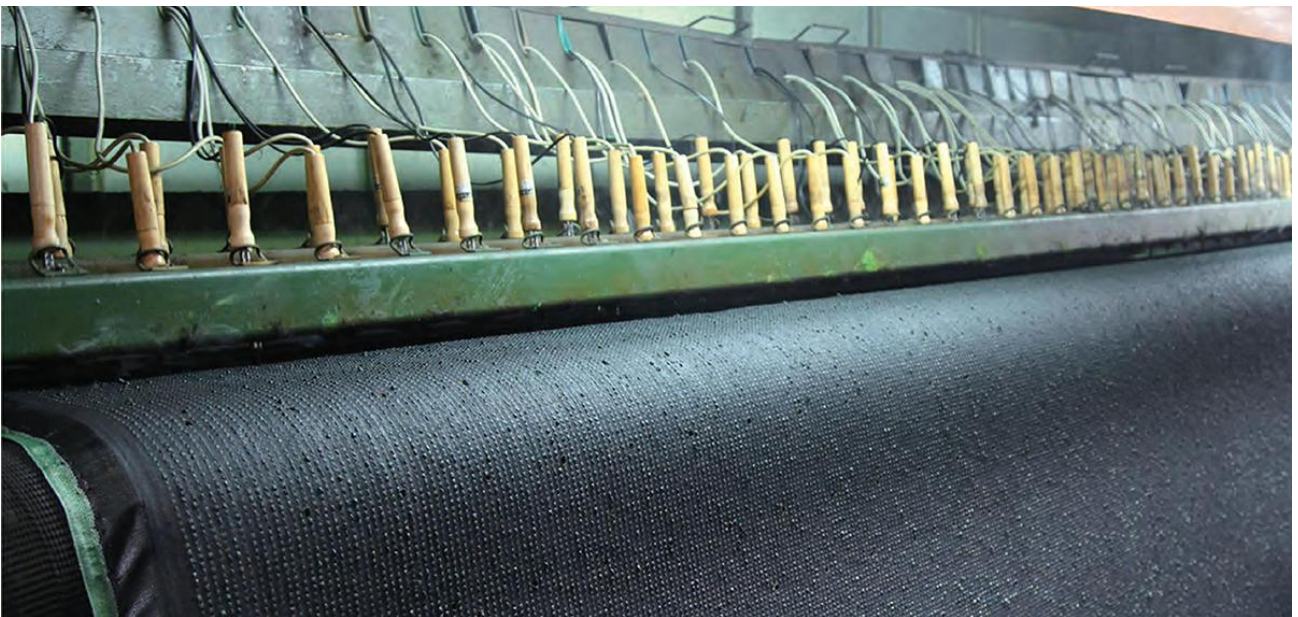
# TUFTING PRODUCTION QUALITY CONTROL PROCESS

1. Imported tufting unit (4 meters wide, 5 meters wide)
2. Single and double yarn feeding
3. Check the incision of jumping stitches, long and short grass, and grass on the paralyzed surface of the lawn



# ADHESIVE PRODUCTION QUALITY CONTROL PROCESS

1. Styrene-butadiene latex and PU adhesive double-material head.
2. Automatic gluing--drying tunnel untwisting--automatic punching--cooling--rolling and packaging.
3. Check the uniformity and thickness of gluing, the width and coverage of gluing, the uniformity of untwisting of the grass, the retraction of the grass, the permeability of the glue, the integrity of the lawn carpet surface, the pull-out force of the grass, and the resistance of the base fabric, tearing force.





# WE PROVIDE YOU WITH QUALITY PRODUCTS



From material selection, process research and development, production and other fields, it pays attention to quality control and pays more attention to physical properties, usability and environmental protection.



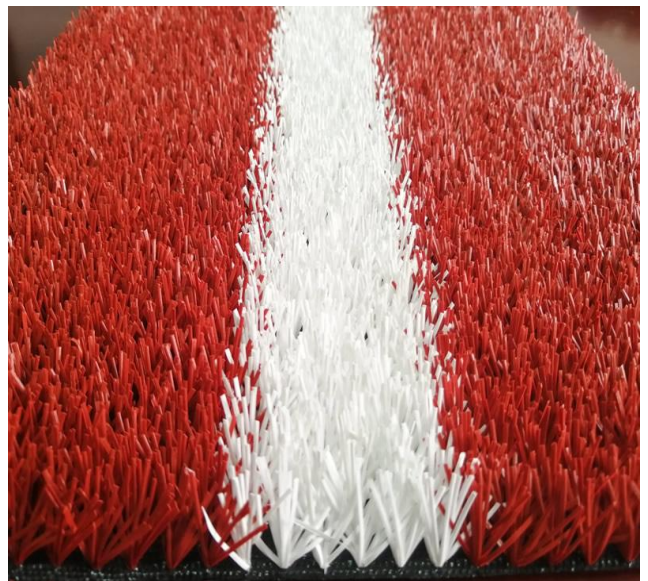
**BASKETBALL, TENNIS**



**NON-FILLED SPORTS**



**S TYPE FOR KINDERGARTEN**



**RED RACETRACK GRASS**

# HYPRESIN

Hypresin Artificial Turf

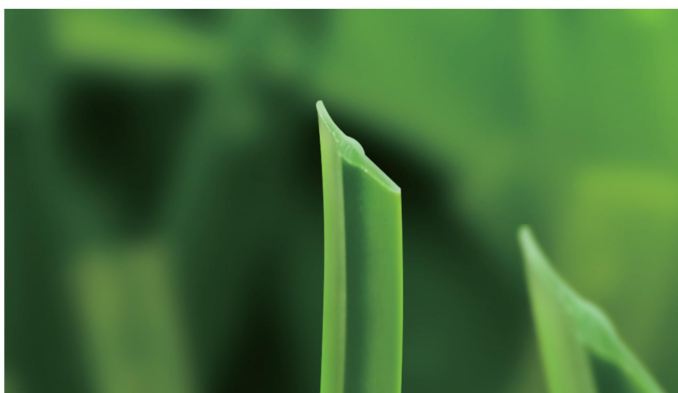


## REINFORCED GRASS

Market circulation model, commonly known as reinforced monofilament, the grass filament structure of this product is designed for a straight and upright effect, which is close to the natural grass shape, and is named after the longitudinal reinforcement ribs at the junction of the two wings.

## PRODUCT FEATURES

Excellent straightness, upright simulation performance and high cost performance. The product has passed the national mandatory standard test; the joint of the two wings of the blade is provided with longitudinal reinforcing ribs, and the structural grass filament not only strengthens the uprightness of the grass seedling, but also further improves the vertical simulation effect.



G-Y4-JJC  
Sports Artificial Grass



500H/UV

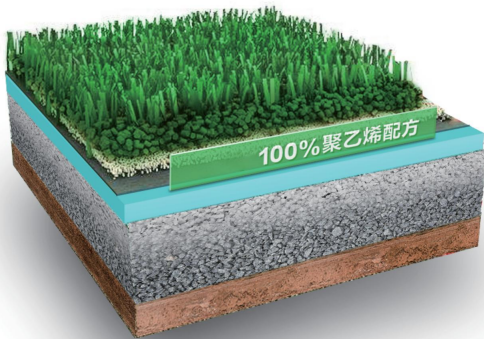


## LAWN FILL

Reasonable filling amount for artificial turf shock absorption and vertical deformation.

The company calculates the actual system finished products as follows through the inspection result data and the actual pavement effect:

- Artificial grass with a height of 50mm
- Filling volume of quartz sand:  $30\text{kg/m}^2$ , about filling thickness 25-30mm
- Particle filling amount:  $6\text{kg/m}^2$ , about 10mm filling thickness
- The overall filling thickness is 35-40mm
- The best grass seedlings are exposed to 10-15mm



### Construction Steps

- Venue payout
- The lawn is spread out and placed for 4-5 hours
- Lawn splicing and cutting
- Use polyurethane environmental protection two-component artificial grass special glue for bonding
- Use 20-30 cm wide non-woven connecting tape, filled with quartz stone and rubber particles
- Use professional equipment to fill quartz sand 2-3 times, and comb evenly
- Professional equipment for filling of rubber particles, even carding

### Scope of application:

Primary and secondary school sports fields, Leisure landscape, Mini sports field

# HYPRESIN

## Hypresin Artificial Turf



Model: F-Y5-SC-D11

## SPRINGBACK GRASS

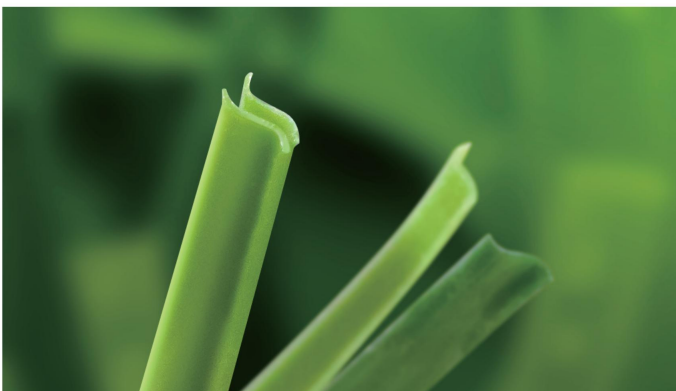
The cross-section of the S-rebound monofilament is S-shaped. The S-shaped structure grass has excellent resilience and straightness, and its wear resistance is twice that of ordinary grass. It is made of 100% virgin PE material, and its superior performance is more prominent in use.

### PRODUCT FEATURES

**Product structure:** The product section is S-shaped, 100% high-carbon virgin PE polyethylene material.

**Product performance:** Good flexibility, strong resilience, high straightness, excellent wear resistance, strong tensile strength and excellent environmental performance; the product has good anti-ultraviolet performance and longer anti-aging.

**Product Type:** Sporty.



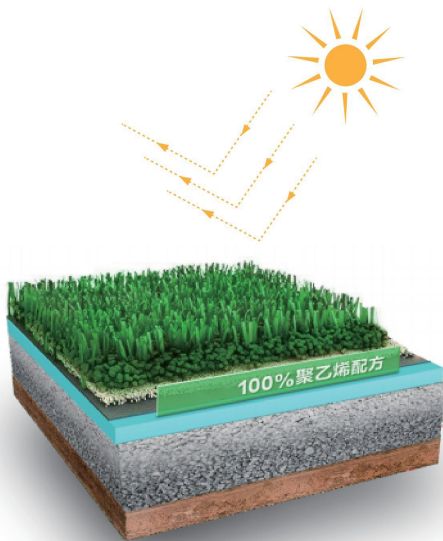
G-Y-SC/N  
Sports Artificial Grass



500H/UV



Model: F-Y5-SC-D11



## Artificial Grass for S Rebound

S rebound special artificial grass, the creator of professional sports venues.

The S polyhedral fiber technology is adopted to improve the resilience and anti-skid protection of the lawn, prevent ultraviolet aging more effectively, reduce the light-receiving surface of the fiber surface layer, improve the lasting load capacity of the lawn, and effectively prevent the lawn from being overheated for a long time.

### Physical and mechanical properties

**Shock absorption:** Adopt a reasonable and standardized system structure, the shock absorption standard requires 45-70%, and the system detection value is 57% qualified.

**Pendant straight shape:** The standard requires 4-11mm, and the system detection value is 9mm qualified.

### Product Specifications

- Approximate value of grass silk for fiber thicknesses above 230 microns
- 100% high carbon PE polyethylene formula
- Grass height 50mm, 5/8 line spacing, over 10500 stitches, 10000 DTEX

### Scope of application

- College sports field      Professional football stadium

# HYPRESIN

## Hypresin Artificial Turf



Model: F-Y6-ZNZ-D12

## COMPASS Professional sports wear-resistant type

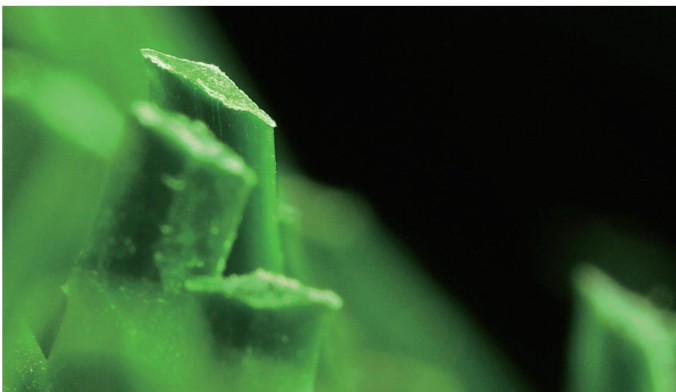
Through professional laboratory tests, COMPASS gives a wonderful appearance, perfect with super wear resistance, excellent breaking force, resilience, ball rebound characteristics, reliable traction and rotation characteristics, making it a professional sports quality.

### PRODUCT FEATURES

**Product structure:** Product section is compass-shaped.

**Product performance:** Combined with sports characteristics, the product's wear resistance, weather resistance and durability are 3 times that of ordinary grass; it has excellent resilience and low friction, and the product has passed the LABOSPORT test by the FIFA designated laboratory and passed the national standard, physical property testing.

**Product type:** Sports.



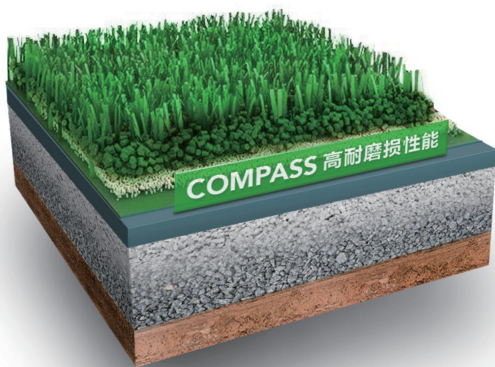
G-Y6-ZNZ



PERSISTENT



Model: F-Y6-ZNZ-D12



## Product Specifications

- Approximate fiber thickness of grass silk 280 microns
- 100% high carbon PE polyethylene formula
- Grass height 50mm, 5/8 line spacing, more than 10500 stitches, 12000DTEX

## Scope of application

High-frequency professional sports field, large, medium and small college sports field

## COMPASS

### Leads professional sports turf

This product is suitable for high-frequency use venues and professional football training venues, with a service life of more than 8 years.

### High abrasion resistance

The grass fiber adopts the LSR low-slip resistance and compliant design, which minimizes the friction and burn of the grass silk due to movement, making the grass silk durable.

### High anti-aging

COMPASS adopts a compass section design, the middle is full and the two wings are symmetrical, making full use of the principle of optical refraction, so that the product can generate optical refraction to the greatest extent while receiving light, thereby reducing ultraviolet damage and increasing the service life of grass silk.

# HYPRESIN

## Hypresin Artificial Turf



Model: F-S30-D13

## DON'T FILL GRASS

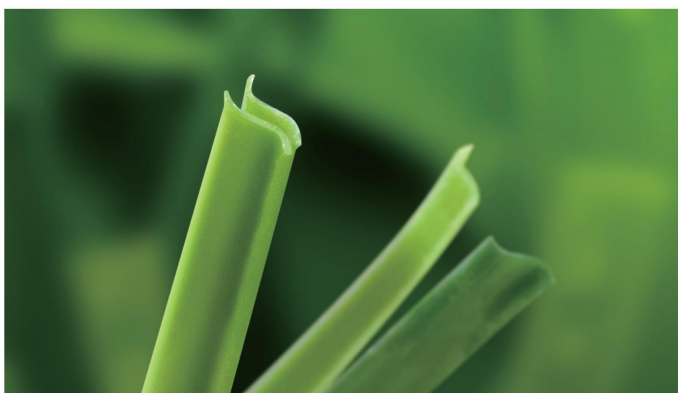
The non-filled special artificial grass is specially developed and produced for small and micro sports fields; the product is simple in construction, high in construction efficiency, low in engineering cost and long in product life. It is the best choice for small and medium-sized sports venues.

## PRODUCT FEATURES

**Product structure:** This series of products is made up of S-type fiber and curved fiber.

**Product performance:** High straightness, strong resilience, excellent wear resistance, good slip resistance; the product has good anti-ultraviolet performance and longer service life.

**Product Type:** Non-filled.



G-F-S30



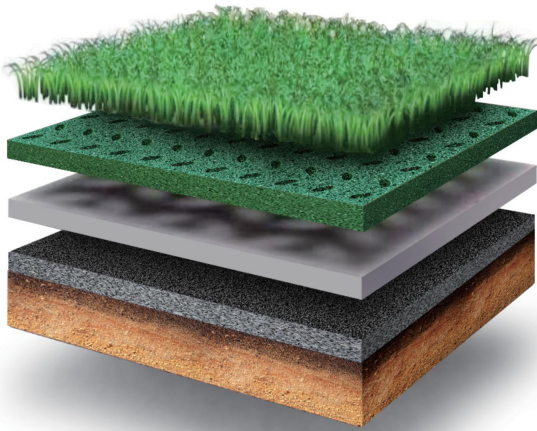
500H/UV

PASSED THE NATIONAL STANDARD PHYSICAL AND CHEMICAL TEST





Model: F-S30-D13



## Non-filled special artificial grass system structure

Non-filled special artificial grass, allowing more people to experience professional sports venues

The system consists of cross-mixed woven turf and is a non-fill grass system that does not use sand and rubber pellets to stabilize the filaments. In order to achieve better stability, the lawn is made of a large amount of grass silk, usually the root area is made of curved fibers, and the grass stem area of the lawn is made of straight fibers, so as to achieve the overall stability and movement effect of the lawn.

## Product Specifications

- Approximate value of grass silk for fiber thicknesses above 200 microns.
- 100 % polyethylene formula.
- Grass height 30mm, 3/8 line spacing, over 21000 stitches, 13000DTEX.

## Scope of application

- Elementary and junior high school playgrounds
- Cage and clubs
- Rugby field
- Mini playground

## Physical and mechanical properties

**Shock absorption:** The non-filled system adopts the recommended parameters of reasonable specifications, the shock absorption standard requires 45-70%, and the system detection value is 50% qualified.

**Vertical deformation:** The standard requires 4-11mm, and the system detection value is 10mm qualified.

# HYPRESIN

Hypresin Artificial Turf



Model: F-X-W25-J10

## KINDERGARTEN artificial grass

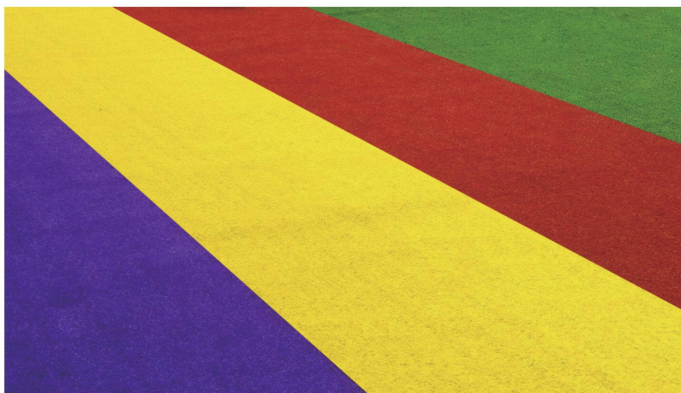
The cross-bionic structure for kindergarten is made of straight fiber simulating turf stalks and curved fibers. It is rich in color, more bionic effect, and has good environmental performance and comfort.

## PRODUCT FEATURES

**Product structure:** The product section is U-shaped, 100% virgin PE material.

**Product performance:** Good softness, strong resilience, excellent antistatic properties and good pollution-free environmental protection; the product has good anti-ultraviolet and anti-aging properties.

**Product Type:** Leisure landscape.



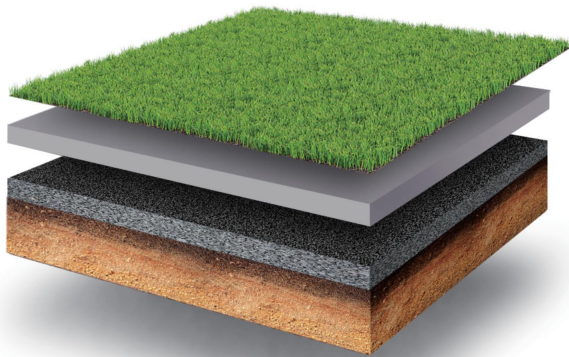
G-X-U25



SECURITY



**Model: F-X-W25-J10**



## Product Specifications

- 100% polyethylene formula
- Grass height 25mm, over 20,000 stitches, over 11,000 DTEX

## Scope of application

- Kindergarten only
- Leisure landscape

## KINDERGARTEN artificial grass

Make the environment better, make children happier

### Green and environmentally friendly

The environmental protection of various indicators has passed the national mandatory standard GB36246-2018 standard, and the environmental protection of raw materials has reached the international food-grade standard.

### Safe care

The product does not need to be filled with auxiliary materials. It is made of straight and curved grass silk, which is soft and elastic. Ping is safer, environmentally friendly and pollution-free.

### Convenient construction

Spread the lawns in the same direction according to the site drawings, and splicing them neatly. Lay 20cm professional seam cloth at the splicing point, evenly apply two-component polyurethane environmental protection adhesive glue, and bond the two lawns to the seam cloth.

# CERTIFICATION

国家体育用品质量监督检验中心  
检验检测报告

No:GT2101515 共2页 第1页

样品名称	人造草坪	规格型号	康尼斯 A88
委托单位	普斯特人造草坪科技(河北)有限公司	商 标	普斯特
委托单位地址	河北省石家庄市裕华区方文路2号凤凰城康尼斯28号办公楼2011	样品等级	-
受托单位	普斯特人造草坪科技(河北)有限公司	送 样 人	程光
生产单位	普斯特人造草坪科技(河北)有限公司	检验类别	委托检验
样品描述	样品未见异常	样品数量	1平方米
检验日期	2021/4/14 至 2021/5/12	生产日期/批号	2021年3月30日
判定依据	GB20246-2018《中小学合成材料面层运动场地》	到 样 日 期	2021/4/14
检验项目	有害物质含量,有害物质释放量	检验结论	该样品符合GB20246-2018《中小学合成材料面层运动场地》标准要求,符合项目合格。 (检验员程光印)
备注	签发日期: 2021年5月12日		

检 验: 张 家 京  
批 准: 孟 伟  
申 核: 程 光

普斯特人造草坪科技(河北)有限公司



**Test Report** No. AJP2101000219FF Date: JAN 20, 2021 Page 1 of 4  
DALIAN STANFORD TECHNOLOGY CO., LTD.  
NO.8, 15Y FLOOR, 16 BOHAI STREET, HUSHAN COMMUNITY, TIEXI STREET, PLANTIAN DISTRICT,  
DALIAN CITY, LIAONING PROVINCE.

The following sample(s) information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.  
**Sample Description:** THE SIMULATION PLANT  
**SGS Ref No.:** GQHLE10100134FE  
**Style/Item No.:** /

**Test Requested:**  
To determine the performance of the sample when it is subjected to the conditions of test specified in UL 94-2017, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, Vertical Burning Test for Classifying Materials V-0, V-1 or V-2.

**Test Results:** -- See attached sheet --  
**Conclusion:** According to the test results and the classification system, the tested sample, when tested at a normal thickness of 3.2mm, is assigned as "UL 94-V-0".

**Test Period:**  
Sample Receiving Date : JAN 08, 2021  
Test Performing Date : JAN 08, 2021 TO JAN 18, 2021

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anq Branch  
Alan Zou  
Lab Manager



国家体育用品质量监督检验中心  
检验检测报告

No:GT2101516 共2页 第1页

样品名称	人造草坪	规格型号	康尼
委托单位	普斯特人造草坪科技(河北)有限公司	商 标	普斯特
委托单位地址	河北省石家庄市裕华区方文路2号凤凰城康尼斯28号办公楼2011	样品等级	-
受托单位	普斯特人造草坪科技(河北)有限公司	送 样 人	程光
生产单位	普斯特人造草坪科技(河北)有限公司	检验类别	委托检验
样品描述	样品未见异常	样品数量	1平方米
检验日期	2021/4/14 至 2021/5/11	生产日期/批号	2021年3月30日
判定依据	GB/T20294-2019《体育用人造草》	到 样 日 期	2021/4/14
检验项目	规格尺寸、外观、排水性(无砂渗吸)、耐磨性(试验时间:495)、耐碱性(试验时间:480)、草丝拉力(垂直)、草丝断裂伸长率、抗冲击、耐紫外线(中心到侧边距离大于1米)、草丝耐摩擦系数率、低氮试验	检验结论	该样品符合GB/T20294-2019《体育用人造草》标准要求,符合项目合格。 (检验员程光印)
备注	签发日期: 2021年5月17日		

检 验: 程 光  
批 准: 孟 伟  
申 核: 程 光

普斯特人造草坪科技(河北)有限公司



**Test Report** No.: EBO2012008-C021 Date: December 3, 2020 Page 1 of 3  
DALIAN STANFORD TECHNOLOGY CO., LTD  
NO.8, 11F, NO.10, BOHAI STREET, HUSHAN COMMUNITY, TIEXI ROAD, PULIANDIAN DISTRICT,  
DALIAN CITY, LIAONING PROVINCE.

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:  
SN80

**EBO Job No.:** EBO2012008-C021  
**Main material:** Polyethylene, polypropylene  
**Date of Sample Received:** November 23, 2020  
**Testing Period:** November 23, 2020 To December 1, 2020  
**Test Requested:** As requested by the client, to do the following test items:  
Perfluorocinnamic acid (PFCA)  
**Test Method:** Please refer to next page(s).  
**Test Results:** Please refer to next page(s).

Signed for and on behalf of  
Kevin Wang  
Kevin Wang

EBO assesses objectively and post-test of the test, and holds the duty of confidentiality for applicant's information. Applicant should continue responsibility for the authenticity of submitted samples and information. The results shown in this report also only to the services request. The test results will not be used for the promotion of the products under the manufacturer's name or for other purposes. EBO do not accept any liability in any way arising out of or in connection with this report, in contract, tort, by default or otherwise. This report is created without signature or approval and special note for inspection of EBO, or it has been reproduced in full or part. This report shall not be published or re-released without the approval of EBO. Any unauthorized alteration, forgery, or falsification of the content or appearance of this document is prohibited and offenders may be prosecuted to the fullest extent of the law. This document is issued by the company under its General Conditions of Service accessible at: <http://www.ebochina.com/gj/118.html>



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国际互认  
检测  
TESTING  
CNAS L4743

# PART OF THE PROJECT CASES



# PART OF THE PROJECT CASES



# PART OF THE PROJECT CASES



**HYPRESIN**

*hypresin*

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