



State-of-the-art artificial grass system, manufactured using an in-line tufting system of a 3/16" gauge size with 17 point/dm, resulting in 35,700 point/m² with SHOT XN blue grass filaments of 10 mm height and 9,000 dtex.

The SHOT XN yarn has a titer of 9,000 dtex.

XNOVA Text M monofilaments have a parallelepiped-shaped section with concave faces that form four grooves and four asymmetrical ribs that reinforce the sides; they have a thickness of 170µm, 0.8 mm wide and a titer of 1.125 dtex.

XNOVA Text M monofilaments incorporate a special elastomer that increases their resilience and softness.

During play, the XNOVA Text M textured filaments act as a spring that compresses and then quickly returns to its original position.

XNOVA Text M textured filaments completely encapsulate sand, minimizing wear of the surface and ball and maximizing its appearance.

The SHOT XN surface has been developed in the MONDO laboratories, expressly for paddle tennis courts.

The SHOT XN filaments are joined to the BACKING base by the TUFTING system. This plinth is made of double layers of polypropylene with a weight of 223 g/m². This base support is characterized by its great dimensional stability. Once the previous process is completed, the product goes through a finishing line that incorporates approximately 600 g/m² of polyurethane. Through this operation, the filaments are fixed to the base, achieving a pull-out resistance of between 25-50 N. The total weight once manufactured is approximately 2,001 g/m², with the maximum width of the roll being 4 meters.

Subsequently, in the installation, a ballast process is carried out as a lower layer and stabilization filler, with rounded, washed and dried quartz sand, with 97% silica, granulometry between 0.2 - 0.6 mm, in an amount of approximately 10 kg/m².

The MONDOTURF range of artificial grass systems is developed to guarantee excellent sporting and technical performance. MONDOTURF NSF SHOT XN artificial grass must be installed on a flat and preferably "rough" surface, such as asphalt or "unfinished cement". The following types of installation should be avoided:

- Direct installation to the surface
- Installation of grass on NWF (non-woven fabric) substrates
- Installation of grass on hard, smooth surfaces such as marble, ceramic or finely smoothed compacted cement.

A cut of at least 3.0 cm is required along the entire perimeter. As much as possible, avoid long-term placement of obstacles or furniture that slow down the natural movement of the grass. The joining of the rolls is carried out by using geotextile tapes applied with two-component epoxy-polyurethane adhesives. The marking of the game lines is generally done with the same material.

The MONDOTURF NSF SHOT XN system is laboratory certified according to quality criteria **DIN 18035-7, UNE 147301 (FEP Approved Product)**.

The system's artificial grass is certified according to the criteria **Greenguard / Greenguard Gold**.

The artificial grass system is manufactured in accordance with the quality management systems provided for by the UNE EN ISO 9001 standard regarding the design, development, production, marketing, installation and maintenance of artificial grass. It has been developed in accordance with the R&D&I Management System in accordance with the UNE 166002 standard regarding research, development and innovation of textile technologies for artificial grass and synthetic fiber materials for artificial grass and is manufactured from in accordance with the environmental quality management systems provided for by the UNE EN ISO 14001 standard regarding the design, development, production, marketing, installation and maintenance of artificial grass.

Thread properties		Carpet properties	
Thread name:	SHOT XN	Thread height (ISO 2549):	10mm(±5%)
Thread title:	9,000 dtex(±10%)	Stitches/dm (ISO 1763):	17 point/dm
Yarn composition:	100% POLYETHYLENE	Stitches/m ² (ISO 1763):	35,700 points/m ² (±10%)
Thread color:	Blue	Number of filaments/m ² :	571,200/m ²
Filament typology:	XNOVA TEXT M	Tufting process:	Online Tufting
Filament Title:	1,125 dtex(±10%)	Hound:	3/16"
Filament thickness (FIFA method 25):	170µm(±10%)	Backing construction:	double layer of polypropylene
Filament structure:	textured monofilament	Coating composition:	Polyurethane (PU)
Number of filaments:	8	Water permeability (EN 12616):	500 mm/h (campi outdoor only)
		Maximum roll size:	25 x 4m

Carpet weights		Filling characteristics	
Yarn weight (ISO 8543):	1,178 g/m ² (±10%)	Stabilization padding:	Quartz sand, rounded, washed and dried
Backing weight:	223 g/m ² (±10%)	Granulometry:	0.2 - 0.6mm
Coating weight:	600 g/m ² (±10%)	Amount:	10kg/m ²
Total weight (ISO 8543):	2,001 g/m ² (±10%)		

