

## MONDOTURF NSF MONOFIBRE STX 90 12 A

## PADEL



Latest generation artificial turf, manufactured with the TUFTING system. It has a gauge of 3/16" with 26 tufts/dm, resulting in 54.600 tufts/m<sup>2</sup>. The STx available in different colors turf filament has a height of 12 mm and 9.000 Dtex.

The filaments that make up the STx system are equipped with a semi-concave and texturized structure in MONOFILAMENT with 250 µm thickness, lubricated with very low levels of abrasion. The filaments are made from polyethylene (PE) with specific additives that are characterized by high resistance to UV rays, to heat, to cold temperatures and extreme climatic variations.

The STx filaments are connected to the backing thanks to the TUFTING system. The backing is made with double layer of polipropilene with a weight of 215 g/m<sup>2</sup>. A peculiar characteristic of this support is the exceptional dimensional stability. After the process described above, approximately 600 g/m<sup>2</sup> of polyurethane are incorporated into the product via the finishing line. This operation fixes the filaments to the backing, obtaining a tear resistance of between 30 - 50 N. The total weight of the finished product is approximately 2.319 g/m<sup>2</sup> with a maximum roll width of 4 meters.

The lower layer is achieved during installation through a ballasting process made with rounded, washed and dried quartz sand granules. The sand has a 97% silicon content with a particle size between 0,3 - 0,8 mm, and is applied at a ratio of 15 Kg/m<sup>2</sup>.

The MONDOTURF range of artificial grass systems has been developed to ensure excellent sporting and technical capabilities. The MONDOTURF artificial grass surface is installed on a level and evenly compacted surface. The laying and union of the rolls is made with polyurethane bi-component adhesive spread on the geotextile joints. The line marking for play are made with the same material.

The system of artificial grass surfaces is manufactured in accordance with the UNE EN ISO 9001 quality management systems in regards to the design, development, production, marketing, installation and maintenance of the artificial grass surface. It was developed according to the I+D+i management system in accordance with the UNE 166002 standard relating to the research, development and innovation of textile technologies for artificial grass surfaces and synthetic fibre materials. Furthermore, it is manufactured in accordance with the UNE EN ISO 14001 quality and environmental management systems regarding the design, development, production, marketing, installation and maintenance of the artificial grass surface.

Carpet composition		Carpet Properties	
Yarn type:	Monofibre STX (6 filaments)	Yarn dtex:	9.000 Dtex (± 10%)
Yarn Composition:	100% POLYETHYLENE	Yarn Thickness:	250 µm (± 10%)
Color:	Green, Blue, Orange, Purple	Yarn Height:	12 mm (± 5%)
Backing type:	2 layers / 215 g/m <sup>2</sup>	Sitches per linear dm:	26 tufts/dm
Backing Composition:	PP / PP	Stitches m <sup>2</sup> :	54.600 tufts/m <sup>2</sup> (± 10%)
Covering type:	Polyurethane (PU)	Number of filaments/m <sup>2</sup> :	655.200
Tufting Process:	Line Tufting	Water Permeability:	≥ 500 mm/h
Gauge:	3/16"	Maximum roll size:	25 x 4 m

Carpet Weights		Recommended Infills	
Yarn Weight:	1.504 g/m <sup>2</sup> (± 10%)	Stabilizing Infill:	Quartz sand, rounded, washed and dried
Backing Weight:	215 g/m <sup>2</sup> (± 5%)	Article size (range):	0,3 - 0,8 mm
Coating weight:	600 g/m <sup>2</sup>	Quantity:	15 Kg/m <sup>2</sup>
Total weight:	2.319 g/m <sup>2</sup> (±10%)		

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Mondo keeps the right to modify the characteristics of the products in any moment

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