



## EcoTrax™ Filament Running Track Surface

### PRODUCT SPECIFICATION: RT-1

**Description:** *EcoTrax™* is an environmentally-friendly and ecologically-safe running track surface which contains no urethane and virtually no heavy metals (see heavy metal statement). It also provides effective run-off particulate filtration, when installed in accordance with the FieldShield design specifications.

In addition, the *EcoTrax™* filament running track surface is engineered to allow “tuning” of the surface response-time in order to customize surface performance to its primary intended use.

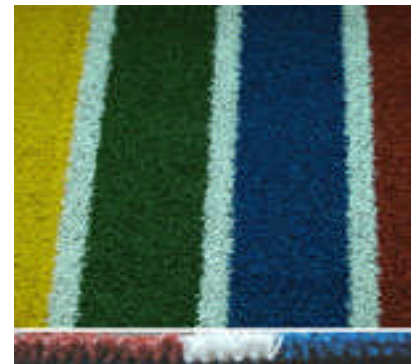
No surface is ideal for all types of use. Sprinters perform better on a fast-response (harder) surface. Longer event runners maximize performance with a slower-response (softer) surface. Practice and training require a surface with higher shock attenuation to reduce wear and fatigue on athlete’s joints and muscles. The user should determine the best configuration for his intended priority use and “tune” the track surface, accordingly.

The *EcoTrax™* surface incorporates a minimal amount of polyorganic, anti-microbial in-fill particulate (*Organite™*) to accomplish this tuning. Slight differences in the amount and depth of the fine polyorganic particulate can produce recognizable differences in response time, resilience and shock attenuation.



In addition, the *EcoTrax™* filament track surface maximizes traction and minimizes loss of energy that may occur through “slip”, by taking advantage of the natural filament “lean”. The surface is designed so that the orientation of the fiber lean virtually eliminates energy loss due to incremental loss of traction. Furthermore this designed fiber orientation maximizes the angle of surface response forces with the athlete’s shoe to provide the greatest possible energy return to the

runner. In simpler terms, the runner is not solely dependant on frictional forces at the surface contact point for forward propulsion. He virtually can “dig-in” and take advantage of reaction forces acting more perpendicular with the shoe surface to propel himself forward.



Also, *EcoTrax™* is a truly all-weather surface system, which when mated with the *EcoFlo™* drainage blanket, will evacuate rainwater from the surface at such an effective rate that athletic performance is not affected by the surface, even in rainfall rates of 2” per hour.

The *EcoTrax™* surface is ecologically-safe; contains no urethanes, heavy metals or recycled tire rubber, thus insuring the product is 100% recyclable, requiring no costly disposal treatment or process.

Also of note - maintenance cost of the *EcoTrax™* surface will be considerably less than the norm for a conventional synthetic track surface. Virtually all conventional synthetic running track surfaces require re-surfacing after 5 to 7 years of use. The cost of this resurfacing (on an 8-lane track) will range between \$40,000 and \$100,000, with the average exceeding \$50,000 for urethane tracks. By comparison, the *EcoTrax™* surface should not need maintenance for 10 to 15 years; and even partial replacement in high wear areas (first lane, starts and hurdle landings), is 60% less costly.

## Physical Specifications:

TYPICAL PROPERTIES	VALUE	TEST METHOD
Yarn Face Weight (oz per Sq. Yd.)	54 ounces	ASTM D5848
Yarn Fibrillation	None	Empirical
Yarn Thickness	230 - 250 Micron	ASTM D1577
Tufting Gauge	3/16 inch or 1/4 inch	Empirical
Tuft Density (tufts per sq. in.)	19.5	Empirical
Wear Resistance	20,000 cycles (no loss of weight or length)	Lisport®
Tuft Bind	9 pounds	ASTM D1335
Grab Tear Strength	280/280 (X & Y)	ASTM D5034
Climatic Dimensional Stability	<.1% machine & <.45% (trans.)	TSI 1201
Primary Backing	3-Layers Woven	Empirical
Secondary Backing	Urethane or Polyolefin Hot-Melt	Empirical
Tertiary Backing	Monolithic Polymeric	Empirical
Total Weight (oz per square yard)	72 ounce (without infill)	ASTM D5848
In-fill Depth	<1/4 inch	Empirical
Relief (length of yarn above infill)	3/8 inch	Empirical
Initial G-Max	<140*	ASTM F335A
Ultimate G-Max(highest attainable)	<175*	TSI 128
Infill material	18-40 Polyorganic AMI	Sieve Analysis
Permeability	64.5 inches per hour	ASTM D4716
Flammability (PILL) Test	Pass	ASTM D2859

\* When constructed in conjunction with EcoFlo™ shock attenuation and drainage composite.

Lane lines: 2” wide permanent factory-tufted (straightaway lines) in standard color of choice; alternating lane colors (optional).

Other markings: permanent *in situ* installation (optional), including lane numbers; start and finish markings; exchange zone marking; and break lines are also available.

# *Play It Safe !™*