



ROYAL SPORT XTP
Xtreme Turf Premier

STANDARD LAB TESTING

TEST METHOD	DESCRIPTION	RESULTS
AATM F 355	GMAX Shock absorption	97 average (rubber-sand) 82 average (rubber)
ASTM F 1551	Sports Shoe Traction – Coefficient of Friction-Static-Soccer	1.30 Dry 1.29 Wet
ASTM F 1551	Sports Shoe Traction – Coefficient of Friction-Dynamic-Soccer	0.88 Dry 0.85 Wet
ASTM F 1551	Sports Shoe Traction – Coefficient of Friction-Static-Football	1.48 Dry 1.44 Wet
ASTM F 1551	Sports Shoe Traction – Coefficient of Friction-Static-Football	1.13 Dry 1.05 Wet
BS 7044 Method 4	Water Infiltration Rate	84 inches/hr
AATCC Method 20	Fiber Melting Point	130°C
ASTM D792	Grass Fiber Density – Specific Gravity	0.948
ASTM D2256	Grass Fiber Tensile Strength-Breaking	31.69 lbs/force
ASTM D2256	Grass Fiber Tensile Strength - Elongation	77.2%
ASTM D2256	Grass Fiber Tensile Strength - Tenacity	1.47 grams/denier
ASTM D1335	Tuft Bind	9 lbs/force
ASTM D5034	Grab Tear Strength - Length	259 lbs/force
ASTM D5034	Grab Tear Strength - Width	278 lbs/force
ASTM D2859	Flammability - Pill	PASS
TSI1201	Dimensional Stability Multiple (temperature 30°F to 120°F and Humidity 20% to 80%)	-0.018” to +0.026” change
ASTM F1551	Relative Abrasiveness	Abrasive Index 12± 2



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SPORTS PERFORMANCE LAB TESTING

TEST METHOD	DESCRIPTION	RESULTS	NATURAL GRASS OR FIFA RANGE
FIFA 10/05-01	Shock absorption <u>after</u> Lisport Wear Test	60%	YES
FIFA 10/05-01	Shock absorption - 5°C or 23°F	60%t	YES
FIFA 10/05-01	Deformation (foot stability) <u>after</u> Lisport Wear Test	7.0 nm	YES
FIFA 10/05-01	Rotational Resistance/Traction <u>after</u> Lisport Wear Test	36 nm	YES
FIFA 07/05-02	Slip resistance scale	180 dry 163 wet	YES
FIFA 06/05-02	Slip resistance deceleration	5.3g dry 3.8g wet	YES
FIFA 10/05-01	Vertical ball rebound <u>after</u> Lisport Wear Test	84 cm	YES
FIFA 03/05-02	Ball roll	3.8 mtr dry 6.7 mtr wet	YES
FIFA 02/05-02	Angled ball behavior dry	58%	YES
FIFA 02/05-02	Angled ball behavior wet	79%	YES
FIFA 09/05-02	Skin abrasion - dry	24	YES
FIFA 08/05-02	Skin / Surface friction	0.48	YES
EN ISO 20105-A02	Pile yarn color change <u>after</u> artificial weathering	5	
EN 13864	Pile yarn change in tensile strength <u>after</u> artificial weathering	6%	
EN ISO 20105-A02	Polymeric infill after artificial weathering – color and appearance	4-5 and No Change	
EN 12228 Method B	Seam Strength	170 unaged / 98 water aged	
ISO4919	Turf Withdrawal Force	6.0 daN	
FIFA 12/05-01	Rubber granule infill residual compression and change in appearance	18%-no change	