



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	041895-TSE-08/02
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	04.07.2019
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	12.01.2026
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	EKİP SPOR EKİPMANLARI İNŞAAT SANAYİ VE TİC.LTD.ŞTİ.
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	RAMAZANOĞLU MAH. SULTAN SK. NO:19 PENDİK İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	EKİP SPOR EKİPMANLARI İNŞAAT SANAYİ VE TİCARET LİMİTED ŞİRKETİ DİLOVASI ŞUBESİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	KÖSELER MAH. 18.CAD. NO:14 KOBİ MERMERCİLER OSB. DİLOVASI / KOCAELİ KOCAELİ / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	041895-TSE-08/01
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ekipgrass
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 15330-1 / 03.11.2014
BELGE KAPSAMI SCOPE OF LICENCE	

Spor alanı yüzeyleri - Özellikle açık havada kullanım için tasarımılanan sentetik çimen ve çok küçük gözenekli yüzeyler, Sentetik çimen

Futbol için tasarlanmış yüzeyler – Tip 6
Darbe emici katman içermeyen

e-imzalı/e-signed

31.12.2024

Belgelendirme Merkezi Başkanı Adına
AKDOĞAN BULUT

İSTANBUL BELGELENDİRME MÜDÜRÜ V.

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr





FIFA LABORATORY TEST REPORT

TM Football Turf | 2015
01.01.2015

Product	ZEUS GRASS
FIFA Licensee	Ekip Spor Ekipmanlari Insaat Sanayi Ve Ticaret Lim
Test Institute	Labosport Italia S.r.l.
Test Number	127358
External Test Number	22-0692IT
Date of Test	02.11.2022
Test Result	Passed
Quality Level	FIFA Quality & Quality PRO
Test Type	Initial



Licensee

Main Address

Name	Ekip Spor Ekipmanlari Insaat Sanayi Ve Ticaret Lim
Address	Ramazanoglu Mahallesi 12 Sultan Sokak, Pendik
ZIP / City	34893 / Istanbul
Website	
Contact Email	
Contact Phone	


Test institute


Main Address

Name	Labosport Italia S.r.l.
Address	Labosport Italia S.r.l. Via Monza, 80
ZIP / City	23870 / CERNUSCO LOMBARDONE
Website	www.labosport.com
Contact Email	labosport@labosport.it
Contact Phone	+39/ 039 896 26 84



Approval

Test Institute Director	Roberto Armeni
Signature	
Date	04.11.2022

Test Institute Engineer	Gabriele Greco
Signature	
Date	04.11.2022



1 – Test Results

Name	Comment	Result
1 - Summary		
Vertical ball rebound FIFA Quality		Passed
Vertical ball rebound FIFA Quality Pro		Passed
Angle ball rebound FIFA Quality		Passed
Angle ball rebound FIFA Quality Pro		Passed
Reduced ball roll FIFA Quality		Passed
Reduced ball roll FIFA Quality Pro		Passed
Shock absorption FIFA Quality		Passed
Shock absorption FIFA Quality Pro		Passed
Deformation FIFA Quality		Passed
Deformation FIFA Quality Pro		Passed
Rotational resistance FIFA Quality		Passed
Rotational resistance FIFA Quality Pro		Passed
Skin / surface friction		Passed
Skin abrasion		Passed
1 - Test Details Object		
Product Name		ZEUS GRASS
Product ID		ZEUS GRASS
Synthetic Turf System		-
Performance infill		SBR
Stabilising infill		SILICA SAND
Shock-pad or elastic layer		-
Sub-base composition		SILICA SAND
2 - Test Details Test Institute		
Date(s) of test		02.11.2022
Report created by		Gabriele Greco
Laboratory Test report number		22-0692IT



Name	Comment	Result
Test Institute Project number		22-0692IT
3 – Product Declaration (Manufacturer)		
Manufacturer		EKİPSPOR EKİPMANLARI İNŞAAT SANAYİ TİCARET LTD. ŞTİ.
Tuft pattern		STRAIGHT
Yarn manufacturer yarn 1		GÜLSAN SENTETİK DOKUMA SANAYİ VE TİCARET A.Ş.
Product name, code yarn 1		GLS SP20 9302-1
Detailed tuft decitex (Dtex) [g/10000m]		12000
Pile yarn profile yarn 1		SPINE
Pile thickness (µ m) yarn 1		300.0
Pile colour (RAL) value 1 yarn 1		6003
Pile colour (RAL) value 2 yarn 1		-
Pile colour (RAL) value 3 yarn 1		-
Pile width (mm) yarn 1		1.40
Number of tufts/m ² yarn 1	ISO1773	9600.00
Pile length (mm) yarn 1	ISO 2549	57.50
Pile weight (g/m ²) yarn 1	ISO 8543	725.00
Pile yarn characterization yarn 1		PE
Pile yarn dtex yarn 1		6000
Yarn manufacturer yarn 2		GÜLSAN SENTETİK DOKUMA SANAYİ VE TİCARET A.Ş.
Product name, code yarn 2		GLS SP20 9502-1
Pile yarn profile yarn 2		SPINE
Pile thickness (µ m) yarn 2		300.0
Pile colour (RAL) value 1 yarn 2		6025
Pile colour (RAL) value 2 yarn 2		-
Pile colour (RAL) value 3 yarn 2		-



Name	Comment	Result
Pile width (mm) yarn 2		1.40
Number of tufts/m2 yarn 2	ISO1773	9600.00
Pile length (mm) yarn 2	ISO 2549	57.50
Pile weight (g/m2) yarn 2	ISO 8543	725.00
Pile yarn characterization yarn 2		PE
Pile yarn dtex yarn 2		6000.0
Yarn manufacturer yarn 3		-
Product name, code yarn 3		-
Pile yarn profile yarn 3		-
Pile thickness (µm) yarn 3		0.0
Pile colour (RAL) value 1 yarn 3		-
Pile colour (RAL) value 2 yarn 3		-
Pile colour (RAL) value 3 yarn 3		-
Pile width (mm) yarn 3		0.00
Number of tufts/m2 yarn 3	ISO1773	0.00
Pile length (mm) yarn 3	ISO 2549	0.00
Pile weight (g/m2) yarn 3	ISO 8543	0.00
Pile yarn characterization yarn 3		-
Pile yarn dtex yarn 3		0.0
Primary backing Product name, code		K16
Primary backing Manufacturer		NEO BACKING TEKSTİL SAN VE TİC LTD.ŞTİ
Re-enforcement scrim Product name, code		-
Re-enforcement scrim Manufacturer		-



Name	Comment	Result
Secondary backing Product name, code		SBR LATEKS
Secondary backing Manufacturer		EOC - BELGIUM
Secondary backing Dry application rate (g/m ²)		1100.0
Carpet Minimum tuft withdrawal force (N)		>40N
Carpet Carpet mass per unit area [g/m ²]		2700.0
Method of jointing		Bonded joints
Bonded joints Adhesive brand name		EKİP SPOR KN 70
Bonded joints Adhesive manufacturer		EKİP SPOR EKİPMANLARI İNŞAAT SANAYİ TİCARET LTD. ŞTİ.
Bonded joints Application rate (g/m)		160
Bonded joints Jointing film brand name		PVC BAND
Bonded joints Jointing film manufacturer		SERTA TEKSTİL ÜRÜNLERİ SANAYİ VE PAZARLAMA LTD. ŞTİ.
Stitched seams Tread brand name/product code		-
Stitched seams Tread manufacturer		-
Stitched seams Stitch rate (stitch per 1m)		0.000
Performance Infill Product name, code		EKİPFLEX GRANUL
Performance Infill Manufacturer		Ekip Spor Ekipmanlari İnşaat Sanayi Ticaret Ltd. Şti.
Performance Infill Material grading		1,00 - 3,15
Performance Infill Particle shape	prEN 14955	Angular - A2



Name	Comment	Result
Performance Infill Particle size range	EN 933-Part 1	1,00 - 3,15
Performance Infill Bulk density (g/cm ³)	EN 1097-3	0.460
Performance Infill Application rate (kg/m ²)		18.5
Stabilising Infill Product name, code		SILICA SAND
Stabilising Infill Manufacturer		KUMSAY MADENCİLİK AND ESFA FARES KUM
Stabilising Infill Material type		SILICA
Stabilising Infill Material grading		0,315 - 0,8
Stabilising Infill Particle shape	prEN 14955	Round high sphericity – C1
Stabilising Infill Particle size range	EN 933-Part 1	0,315 - 0,8
Stabilising Infill Bulk density (g/cm ³)	EN 1097-3	1.50
Stabilising Infill Application rate (kg/m ²)		15.0
Shockpad, E-layer Product name, code		-
Shockpad, E-layer Manufacturer		-
Shockpad, E-layer Composition		-
Shockpad, E-layer Bulk density (g/cm ³)		0.00
Shockpad, E-layer Thickness	EN 1969	0.0
Shockpad, E-layer Shock absorption (%)	FIFA 4a	0.0
Shockpad, E-layer Deformation	FIFA 5a	0.0
Shockpad, E-layer Tensile strength (MPa)		0.00
Shockpad, E-layer Mass per unit area (kg/m ²)		0.0
Other, detail		-
3 – Test Results Player / Surface Interaction		



Name	Comment	Result
Rotational Resistance Initial Dry (Quality)	27 - 48 Nm	36
Rotational Resistance Initial Dry (Pro)	32 - 43 Nm	36
Rotational Resistance Initial Wet (Quality)	27 - 48 Nm	34
Rotational Resistance Initial Wet (Pro)	32 - 43 Nm	34
Rotational Resistance after simulated wear 3'000 cycles (5*)	32 - 43 Nm	38
Rotational Resistance after simulated wear 3'000 cycles (20*)	32 - 43 Nm	0
Rotational Resistance after simulated wear 6'000 cycles (5*)	27 - 48 Nm	42
Rotational Resistance after simulated wear 6'000 cycles (20*)	27 - 48 Nm	0
3 – Test Results Product identification field product		
Performance infill Thermographic analysis Organic [%] - Product Declaration		66.9
Performance infill Thermographic analysis Inorganic [%] - Product Declaration		33.1
Performance infill Thermographic analysis Elastomer [%] - Product Declaration		62.3
4 – Product Identification		
Artificial Turf Carpet mass per unit area [g/m ²]		2886
Artificial Turf Tufts per unit area [m ²]		9765



Name	Comment	Result
Artificial Turf Pile length above backing [mm]		58.0
Artificial Turf Pile weight [g/m ²]		1392
Detailed tuft decitex (Dtex) [g/10000m]		11891
Artificial Turf Water permeability of carpet [mm/h]		2853
Artificial Turf Free pile height		12
Performance infill Particle size range [mm]		1,25 - 2,5
Performance infill Particle shape		A2
Performance infill Bulk density [g/cm ³]		0.490
Performance infill Infill depth [mm]		45
Performance infill Thermographic analysis organic [%]		65
Performance infill Thermographic analysis inorganic [%]		35
Stabilising infill Particle size range [mm]		0,315 - 1,0
Stabilising infill Particle shape		C1
Stabilising infill Bulk density [g/cm ³]		1.38
Shock pad / E- layer Shock absorption [%]	if part of supplied system	0.0
Shock pad / E- layer Deformation	if part of supplied system	0.0
Shock pad / E- layer Thickness	if part of supplied system	0.0
Other, detail		Due to different DSC devices and potential difference in the test method used, the shape and peak temperatures of



Name	Comment	Result
		the DSC analysis may differ from the FIFA requirement. Detailed tuft decitex (Dtex) Yarn 1: 5918. Declared: 6000. Diff 1,2%. Detailed tuft decitex (Dtex) Yarn 2: 5973. Declared: 6000. Diff 0,5%.
5 – Test Results Ball / Surface interaction		
Vertical Ball Rebound Initial Dry (Quality)	0.6 - 1m	0.72
Vertical Ball Rebound Initial Dry (Pro)	0.6 - 0.85m	0.72
Vertical Ball Rebound Initial Wet (Quality)	0.6 - 1m	0.67
Vertical Ball Rebound Initial Wet (Pro)	0.6 - 0.85m	0.67
Vertical Ball Rebound after simulated wear 3'000 cycles (5*)	0.6 - 0.85m	0.81
Vertical Ball Rebound after simulated wear 6'000 cycles (5*)	0.6 - 1m	0.88
Vertical Ball Rebound after simulated wear 3'000 cycles (20*)	0.6 - 0.85m	0.00
Vertical Ball Rebound after simulated wear 6'000 cycles (20*)	0.6 - 1m	0.00
Angle Ball Rebound Dry	45 - 80 %	57
Angle Ball Rebound Wet	45 - 80 %	70
Reduced Ball Roll Initial Dry (Quality)	4 - 10 m	6.5
Reduced Ball Roll Initial Dry (Pro)	4 - 8 m	6.5
Reduced Ball Roll after simulated wear 3'000 cycles (5*) Dry	4 - 8 m	7.3
Reduced Ball Roll after simulated	4 - 8 m	7.6



Name	Comment	Result
wear 3'000 cycles (5*) Wet		
Reduced Ball Roll after simulated wear 3'000 cycles (20*) Dry	4 - 8 m	0.0
Reduced Ball Roll after simulated wear 3'000 cycles (20*) Wet	4 - 8 m	0.0
Reduced Ball Roll after simulated wear 6'000 cycles (5*) Dry	4 - 12 m	9.0
Reduced Ball Roll after simulated wear 6'000 cycles (5*) Wet	4 - 12 m	9.4
Reduced Ball Roll after simulated wear 6'000 cycles (20*) Dry	4 - 12 m	0.0
Reduced Ball Roll after simulated wear 6'000 cycles (20*) Wet	4 - 12 m	0.0
Shock absorption Initial Dry (Quality)	57 - 68 %	67.1
Shock absorption Initial Dry (Pro)	62 - 68 %	67.1
Shock absorption Initial Wet (Quality)	57 - 68 %	66.6
Shock absorption Initial Wet (Pro)	62 - 68 %	66.6
Shock absorption after simulated wear 3'000 cycles (5*)	62 - 68 %	63.6
Shock absorption after simulated wear 3'000 cycles (20*)	62 - 68 %	0.0
Shock absorption after simulated wear 6'000 cycles (5*)	57 - 68 %	58.3
Shock absorption after simulated wear 6'000 cycles (20*)	57 - 68 %	0.0
Shock absorption 50°C	57 - 68 %	67.10



Name	Comment	Result
Shock absorption -5°C	57 - 68 %	64.90
Other, detail		-
5 – Test Results Player / Surface interaction		
Deformation Initial Dry (Quality)	4 - 11 mm	9.9
Deformation Initial Dry (Pro)	4 - 10 mm	9.9
Deformation Initial Wet (Quality)	4 - 11 mm	10.0
Deformation Initial Wet (Pro)	4 - 10 mm	10.0
Deformation after simulated wear 3'000 cycles (5*)	4 - 10 mm	8.3
Deformation after simulated wear 3'000 cycles (20*)	4 - 10 mm	0.0
Deformation after simulated wear 6'000 cycles (5*)	4 - 11 mm	7.6
Deformation after simulated wear 6'000 cycles (20*)	4 - 11 mm	0.0
Skin / surface friction Dry	0.35 - 0.75 μ	0.58
Skin / surface friction Dry 3'000 cycles	0.35 - 0.75 μ	0.61
Skin / surface friction Dry 6'000 cycles	0.35 - 0.75 μ	0.62
Skin abrasion Dry	\pm 30 %	20
Skin abrasion Dry 3'000 cycles	\pm 30 %	21
Skin abrasion Dry 6'000 cycles	\pm 30 %	24
6 – Environmental impact (artificial, light, water)		
Pile yarn 1 Colour change after artificial weathering	\geq Grey scale 3	4-5
Pile yarn 2 Colour change after artificial weathering	\geq Grey scale 3	4-5



Name	Comment	Result
Pile yarn 3 Colour change after artificial weathering	≥ Grey scale 3	-
Pile yarn 1 Peak Breakage Force before artificial weathering		20.30
Pile yarn 1 Peak Breakage Force after artificial weathering		19,8
Pile yarn 1 Peak Breakage Force Green Reference value before artificial weathering		20.30
Pile yarn 1 Peak Breakage Force Variation after weathering from Green Reference value	Change ≤ 25 %	2.50
Pile yarn 2 Peak Breakage Force before artificial weathering		17.20
Pile yarn 2 Peak Breakage Force after artificial weathering		18,7
Pile yarn 2 Peak Breakage Force Green Reference value before artificial weathering		20.30
Pile yarn 2 Peak Breakage Force Variation after weathering from Green Reference value	Change ≤ 25 %	7.90
Pile yarn 3 Peak Breakage Force before artificial weathering		0.00
Pile yarn 3 Peak Breakage Force after artificial weathering		-
Pile yarn 3 Peak Breakage Force		0.00



Name	Comment	Result
Green Reference value before artificial weathering		
Pile yarn 3 Peak Breakage Force Variation after weathering from Green Reference value	Change \leq 25 %	0.00
Polymeric infill Colour change after artificial weathering	\geq Grey scale 3	4
Polymeric infill Visual change in composition after artificial weathering	No change	No change
Complete system Water permeability	$>$ 180 mm/h	1895
Stitched joints Strength un-aged	\geq 1000N/100mm	0
Stitched joints Strength water aged	\geq 1000N/100mm	0
Bonded joints Strength un-aged	\geq 75/100mm	160
Bonded joints Strength water aged	\geq 75/100mm	107
Carpet tuft Withdrawal force un-aged	\geq 40N	55
Carpet tuft Withdrawal force water aged	\geq 40N	50
Heat Category	for information	Category 3
7 - Miscellaneous (shock pad, sub-base - if part of the system)		
Shock Pad / E-layer tensile strength un-aged	\geq 0.15 MPa	0.00
Sub-base Composition		-
Sub-base Particle size range		-
Sub-base Particle shape		-

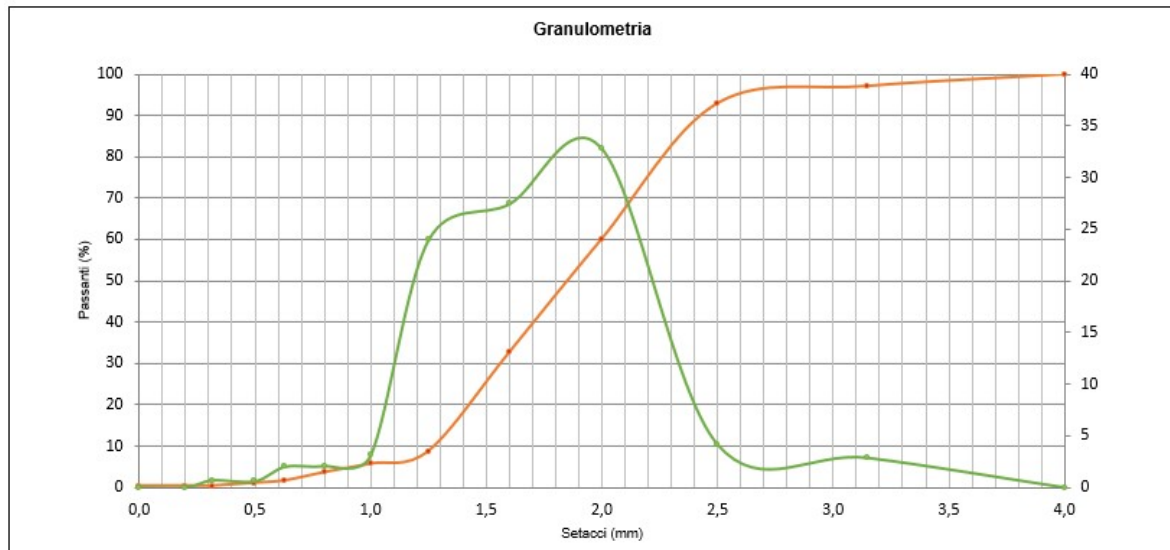


Name	Comment	Result
Sub-base Thickness		-
Sub-base Compaction & test method		-
Other, detail		-
Turf Product Report Details		
Shockpad, E-layer Type Category		No Shockpad
Performance Infill Material type Category		End of Life Tires Infill (ELT)
Splash Characteristics Category		≥ 1.5%



2 – Test Images

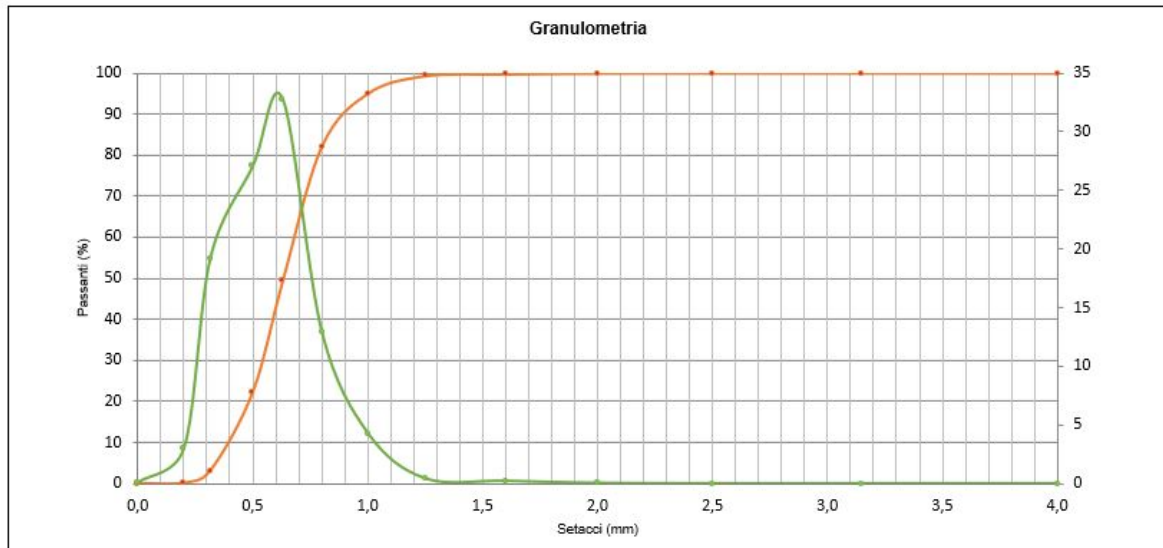
Performance infill particle grading curve



Setacci (mm)	0	0,2	0,315	0,5	0,63	0,8	1,0	1,25	1,6	2,0	2,5	3,15	4,0
Rifiutati (%)	0	0	1	1	2	2	3	24	27	33	4	3	0
Passanti (%)	0	0	0	1	2	4	6	9	33	60	93	97	100



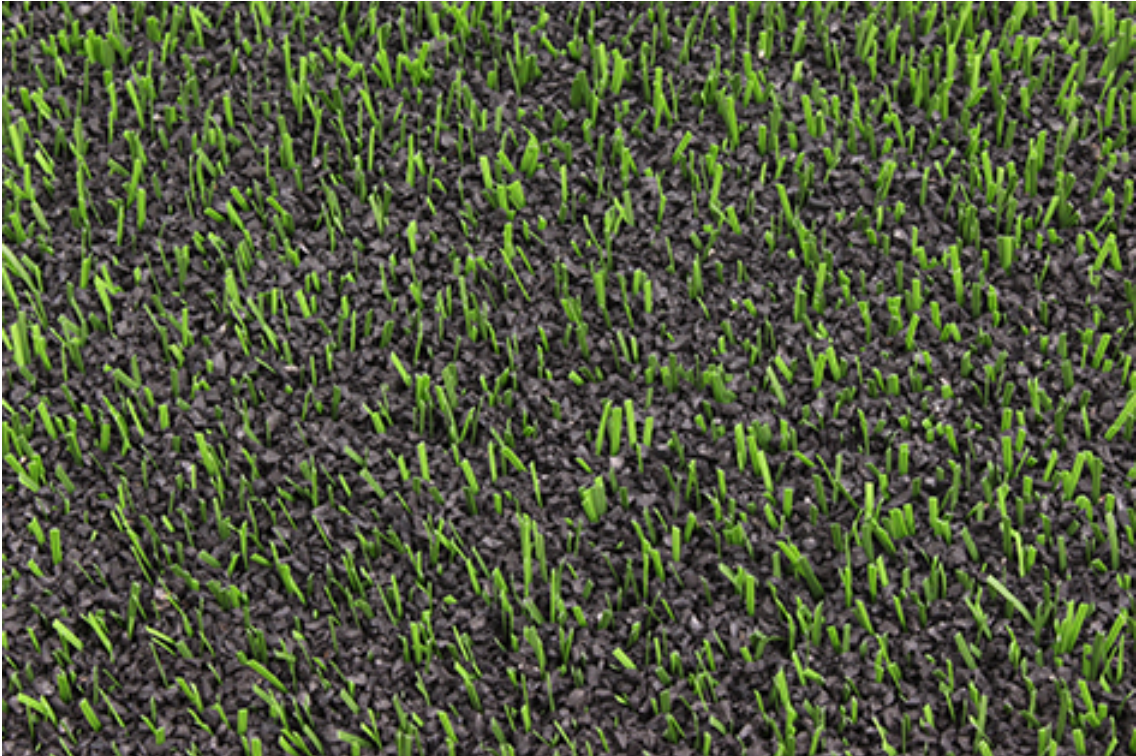
Stabilising infill particle grading curve



Setacci (mm)	0	0,2	0,315	0,5	0,63	0,8	1,0	1,25	1,6	2,0	2,5	3,15	4,0
Rifiutati (%)	0	3	19	27	33	13	4	0	0	0	0	0	0
Passanti (%)	0	0	3	22	49	82	95	99	100	100	100	100	100



Simulated wear - Before 1





Simulated wear - Before 2

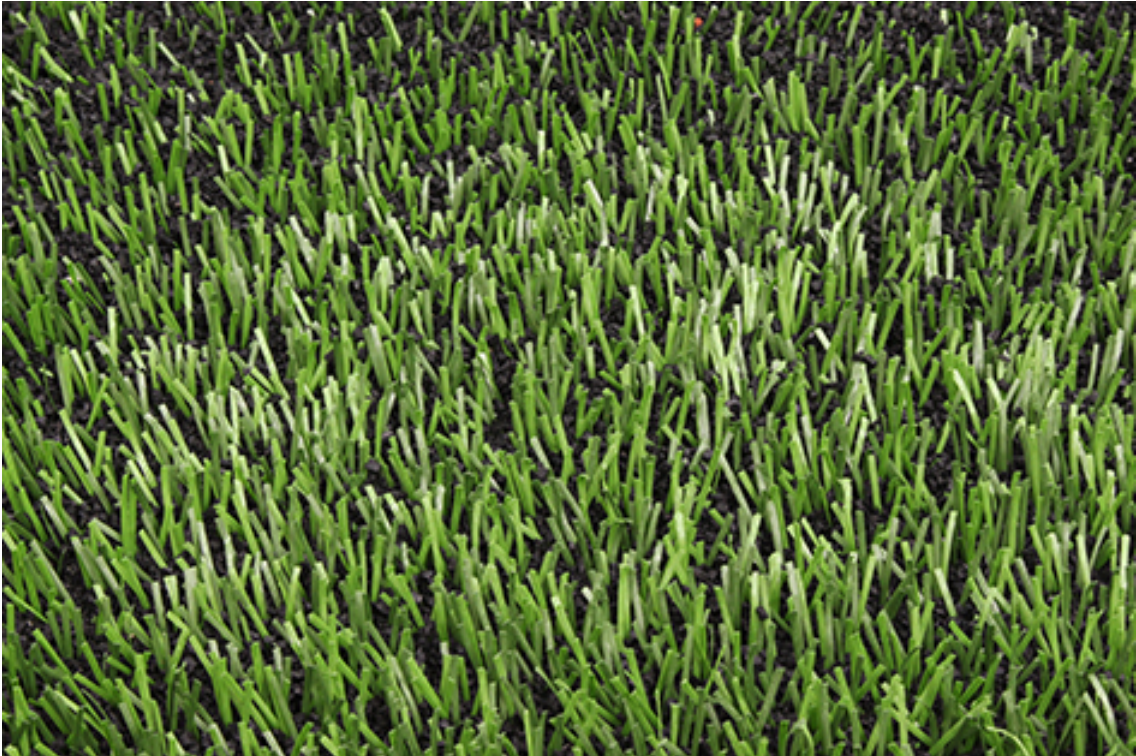




Simulated wear - Before 4



Simulated wear - After 1





Simulated wear - After 2





Simulated wear - After 3





Simulated wear - After 4

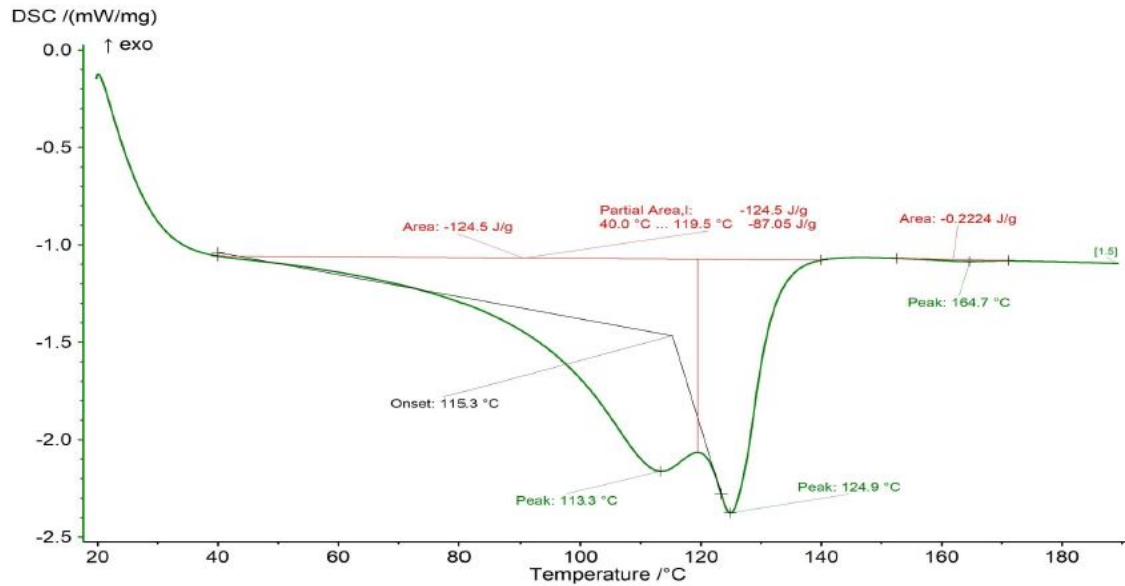




Yarn Characteristics DSC



Laboratory:	Labosport Italia Srl	Identity:	21-0804IT
Project:	21-0804IT	Sample:	VC
Operator:	Gabriele	Sample mass:	6.52 mg
Date/Time:	19/01/2022 05:55:06	Serial number:	DSC3500A-1254-L



TEST CYCLES:

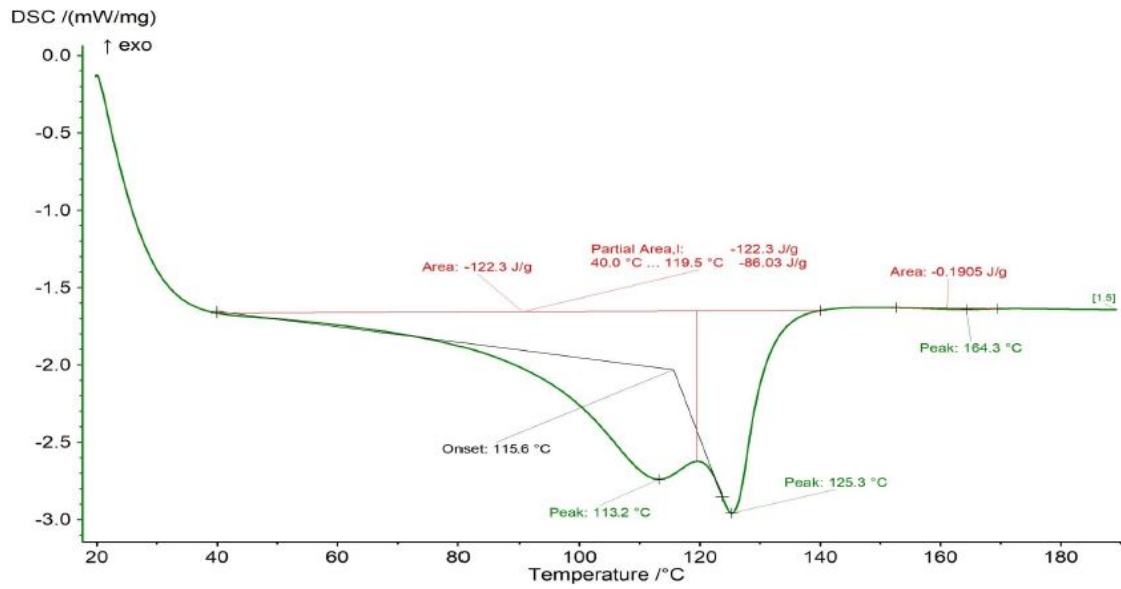
- | | | |
|---|---|---|
| 1) Heat from 20,0 °C to 190,0 °C at 20,0 °C/min | 3) Cool from 190 °C to 20,0 °C at 20,0 °C/min | 5) Heat from 20,0 °C to 190,0 °C at 20,0 °C/min |
| 2) Hold for 5,0 min at 190,0 °C | 4) Hold for 5,0 min at 20,0 °C | NETZSCH DSC 3500 SERIES |



Yarn Characteristics DSC - 2



Laboratory:	Labosport Italia Srl	Identity:	21-0804IT
Project:	21-0804IT	Sample:	VS
Operator:	Gabriele	Sample mass:	6.52 mg
Date/Time:	19/01/2022 06:41:50	Serial number:	DSC3500A-1254-L



TEST CYCLES:

1) Heat from 20,0 °C to 190,0 °C at 20,0 °C/min	3) Cool from 190 °C to 20,0 °C at 20,0 °C/min	5) Heat from 20,0 °C to 190,0 °C at 20,0 °C/min
2) Hold for 5,0 min at 190,0 °C	4) Hold for 5,0 min at 20,0 °C	NETZSCH DSC 3500 SERIES

Stabilising Infill - picture



Performance Infill - picture



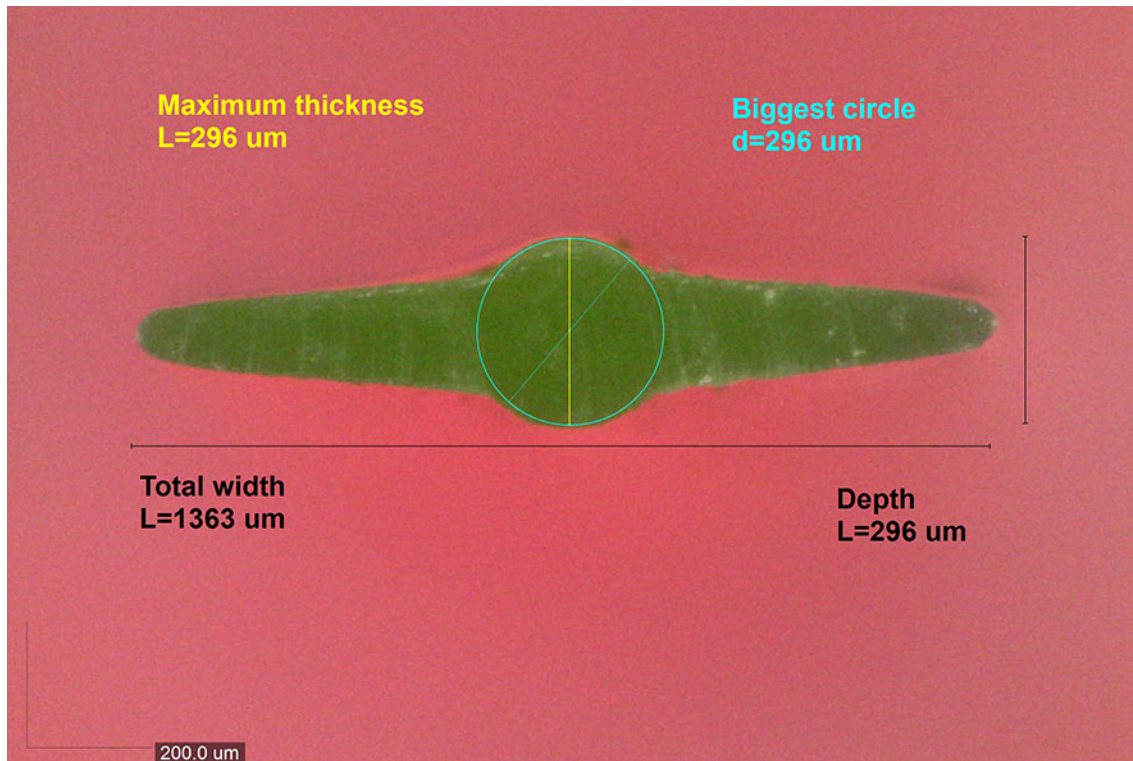


Cross-section Yarn 1





Cross-section Yarn 2





FIELD CERTIFICATE

Izmir Kemalpaşa İlçe Futbol Sahası

FIFA is pleased to confirm that the football turf system

ZEUS GRASS

has been installed by

Ekip Spor Ekipmanlari Insaat Sanayi Ve Ticaret Lim

at

Izmir Kemalpaşa İlçe Futbol Sahası - Kemalpaşa İlçe Stadı - İzmir (Turkey)

The installation has been tested and certified to the

"FIFA QUALITY PROGRAMME FOR FOOTBALL TURF – FIFA QUALITY" standard.

Validity Period: **15.08.2023** to **14.08.2026**

Field No.: **1016878**

Re-Test Number: **0**

Gianni Infantino
FIFA President





FIELD CERTIFICATE

Vezirhan Belediyesi Spor Tesisleri Sentetik Çim Futbol Sahası

FIFA is pleased to confirm that the football turf system

ZEUS GRASS

has been installed by

Ekip Spor Ekipmanlari Insaat Sanayi Ve Ticaret Lim

at

Vezirhan Belediyesi Spor Tesisleri Sentetik Çim Futbol Sahası - Vezirhan Beldesi Spor Tesisleri Futbol Sahası - Bilecik (Turkey)

The installation has been tested and certified to the

"FIFA QUALITY PROGRAMME FOR FOOTBALL TURF – FIFA QUALITY" standard.

Validity Period: **08.06.2023** to **07.06.2026**

Field No.: **1016617**

Re-Test Number: **0**

Gianni Infantino
FIFA President

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Zurich, 09.06.2023





FIELD CERTIFICATE

KILIS 7 ARALIK STADYUMU

FIFA is pleased to confirm that the football turf system

ZEUS GRASS

has been installed by

Ekip Spor Ekipmanlari Insaat Sanayi Ve Ticaret Lim

at

KILIS 7 ARALIK STADYUMU - Kilis Gençlik Ve Spor İl Müdürlüğü - Kilis (Turkey)

The installation has been tested and certified to the

"FIFA QUALITY PROGRAMME FOR FOOTBALL TURF – FIFA QUALITY" standard.

Validity Period: **06.02.2023** to **05.02.2026**

Field No.: **1016090**

Re-Test Number: **0**

A blue ink signature of Gianni Infantino.

Gianni Infantino
FIFA President

TM Football Turf | 2015

Football-Technology.FIFA.com

Zurich, 06.02.2023



INSPECCO

UYGUNLUK ONAYI ATTESTATION of CONFORMITY

Sertifika No Certificate Number	: 20120001
Üretici Manufacturer	: EKİP SPOR EKİPMANLARI İNŞAAT SANAYİ VE TİC. LTD. ŞTİ. Köseler Mh. 18. Cad. No:14 Kobi Mermerciler O.S.B. Dilovası / KOCAELİ
Ürün Product	: Suni Çim Artificial Turf
Referans(lar) Reference(s)	: TS EN 15330-1:2013 Spor alanı yüzeyleri - Özellikle dış mekânda kullanım için tasarılan sentetik çim ve iğnelenmiş yüzeyler - Bölüm 1: Futbol, hokey, ragbi antrenmanı, tenis ve çok amaçlı spor kullanımları için sentetik çim yüzeyi özellikleri; EN 12235, EN 14808, EN 14809, EN 15301-1, EN 12234, EN 12616, EN 12228, EN ISO 20105- A02, EN 13864 TS EN 15330-1:2013 Surfaces for sports areas - Synthetic turf and needle-punched surfaces primarily designed for outdoor use - Part 1: Specification for synthetic turf surfaces for football, hockey, rugby union training, tennis and multi-sports use EN 12235, EN 14808, EN 14809, EN 15301-1, EN 12234, EN 12616, EN 12228, EN ISO 20105- A02, EN 13864
Referans Dokümanlar Reference Documents	: LABOSPORT test report, number : 19-0089IT TSE certificate, number : 041895-TSE-08/01

Yukarıda açıklanan ürün, INSPECCO Ürün Belgelendirme Prosedürüne göre incelenmiş ve Makine Direktifi 2006/42/EC Ek-1 Temel Sağlık ve Güvenlik Gereksinimlerine uygun olduğu görülmüştür. Bu sertifika gönüllülük esasına göre düzenlenmiş olup test ve belgelendirme için INSPECCO'ya gönderilen numune için geçerlidir. Üründeki değişiklikler veya yukarıda belirtilen yönetmelik veya standartlarda yapılan değişiklikler bu sertifikayı geçersiz kılabilir.

The product described above has been examined according to the INSPECCO Product Certification Procedure and has been found to comply with the Machinery Directive 2006/42/EC Annex-1 Essential Health and Safety Requirements. This certificate is issued on a voluntary basis and is valid for the sample sent to INSPECCO for testing and certification. Changes to the product or the regulations or standards mentioned above may invalidate this certificate.

Bilgilendirme: İmalatçı 2006/42/AT Makine Emniyeti Yönetmeliğinin ilgili tüm şartlarını yerine getirdikten sonra ürüne CE işareti ilâştirebilir. Ürünle ilgili diğer yönetmelikler de üretici tarafından dikkate alınmalıdır.

Information: The manufacturer can affix the CE mark to the product after fulfilling all the relevant requirements of the 2006/42/EC Machinery Directive. Other product-related regulations should also be taken into account by the manufacturer.



İlk Yayınlanma Tarihi ve Yeri First Issue Date and Place	: 12.02.2020, İstanbul
Revizyon Numarası ve Tarihi Revision No and Date	: 04 / 06.02.2024
Sertifika Geçerlilik Tarihi Certificate Expiry Date	: 09.02.2025



INSPECCO

Belgelendirme ve Gözetim Hizmetleri A.Ş.

SERİFALİ MAH. ACIKYÜZ SOK. No:2/3 INSPECCO PLAZA, ÜMRANİYE / İSTANBUL - TÜRKİYE
+ 90 216 313 14 20

Bölüm Müdürü
Manager of Department





Lisport XL

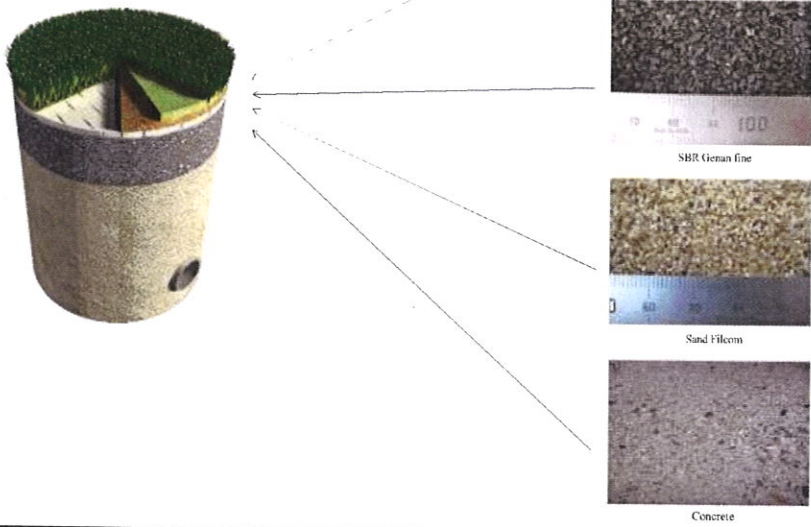
Lisport XL results

Title: TenCate™ MonoSlide / MS Pro Lime/Dark with sand and SBR (Ekipspor)

Artificial turf	TenCate™ MonoSlide 12000/06 MS Pro Lime/Dark (14,7 stitches)	Date:	23-3-2018
Article number	RD#0294	Free pile(mm)	20
dimensions sample (L x b) (m)	4,5x0,5	Additional cycles	5

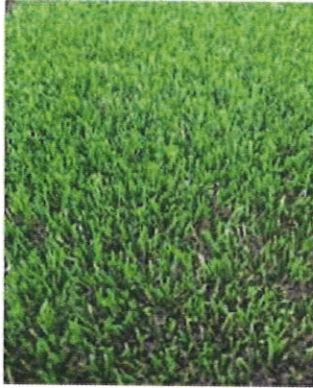
Infill from bottom to top (1-3)	Kind of infill	Stabilizing infill (1)	Performance infill (2)
	Material type	Sand Filcom	SBR Gemm fine
	Particle shape	Round	Spherical, moderate angular
	Particle size (mm)	0,5 - 1,0	0,7 - 2,0
	Bulk density (gr/cm³)	1,56	0,44
	Application rate (mm)	10	30
	Application rate (kg/m²)	14	16,5

Shock pad	Manufacturer	
	Product name	Concrete
	Thickness	





Lisport XL



Before Lisport XL



After Lisport XL

Cycles	Infill height(mm)	Pile height (mm)	Infill thrown cut (kg)	Loose Fibers (g)	Cracks (1-10)	Splitting (1-10)	Resilience (1-10)
5	40	21	-	-	10	10	10
505	40	20	9,155	0,8304			
1005	39	19	11,805	1,197	10	10	9
1505	40	15	13,526	1,6746			
2005	40	16	11,848	2,009	10	10	7
2505	40	18	14,093	2,2513			
3005	39	16	12,691	2,4644	10	9	7
3505	40	15	14639	3,2144			
4005	39	17	11911	3,4165	10	9	6
4505	38	17	15661	4,2662			
5005	39	17	12950	4,3605	7	8	6
5505	40	18	13921	5,1273			
6005	40	15	10238	8,4869	6	7	6
6505							
7005							
7505							
8005							
8505							
9005							
9505							
10005							
10505							
11005							
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14005							
14505							
15005							



Lisport XL






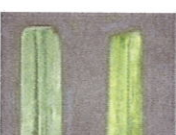

Requirements	FIFA QUALITY PRO	FIFA QUALITY	IRB
SA (AAA)	62% - 68%	57% - 68%	57% - 68%
DEF (AAA)	6mm - 10mm	6mm - 11mm	6mm - 10mm
ER (AAA)	-	-	22% - 48%
Vertical ball rebound	0.60m - 0.85m	0.60m - 1.0m	0.60m - 1.0m
Rotational resistance	32Nm - 43Nm	27Nm - 48Nm	32Nm - 43Nm
Ball roll	4m-8m	4m-10m	-
Ball roll *	4m-8m	4m-12m*	-
HIC	-	-	1,4 -> 1,3 *

* (after simulated wear)

Within all requirements
 Not within all the requirements
 Outside all requirements

Check	Cycles	Ball Bounce (cm)	Rotational friction (N/m)	SA(%)	VD(mm)	ER(%)	HIC(cm)
○	5	83,5	34,6	64,2	9,3	36,8	
	1	84,6	36	62,9	9,03	36,7	
	2	81	33	63,8	9,01	36,9	
	3	84,4	34	64,8	9,33	36,7	
	4	84,6	38	65,6	9,66	36,2	
	5	83	32	63,8	9,22	37,3	
○	3005	84,2	40,4	61,9	8,5	39,8	
	1	83,4	45	60,9	8,4	40,2	
	2	82,8	37	61,9	8,56	39,7	
	3	84	39	61,5	8,47	40,7	
	4	87,6	41	62,1	8,43	40,1	
	5	86,1	40	63,2	8,76	38,4	
○	6005	84,3	36,6	62,6	8,5	41,5	
	1	87,8	34	62,1	8,31	41,6	
	2	84,1	37	61,6	8,32	42,1	
	3	87,9	37	62,9	8,64	41	
	4	84,1	35	63,1	8,64	41,8	
	5	83,8	40	63,3	8,76	40,8	
○	9005						
	1						
	2						
	3						
	4						
	5						
○	12005						
	1						
	2						
	3						
	4						
	5						
○	15005						
	1						
	2						
	3						
	4						
	5						

Lisport XL

5		Yarn Thickness (μm) 318 308	1005		Yarn Thickness (μm) 348 326
2005		Yarn Thickness (μm) 320 324	3005		Yarn Thickness (μm) 316 313
4005		Yarn Thickness (μm) 320 310	5005		Yarn Thickness (μm) 300 328
6005		Yarn Thickness (μm) 317 286	7005		Yarn Thickness (μm)
8005		Yarn Thickness (μm)	9005		Yarn Thickness (μm)
10005		Yarn Thickness (μm)	11005		Yarn Thickness (μm)
12005		Yarn Thickness (μm)	13005		Yarn Thickness (μm)
14005		Yarn Thickness (μm)	15005		Yarn Thickness (μm)



Lisport XL

Ball Roll

5 up	Laag => hoog	T1	T2	5 down	Laag => hoog	T1	T2
	1	1,63	0,47		1	1,57	0,57
2	1,65	0,52	2	1,59	0,61		
3	1,61	0,50	3	1,57	0,56		
4	2,08	1,32	4	2,25	1,54		
5	2,13	1,32	5	2,26	1,61		
6	2,07	1,42	6	2,31	1,58		
7	2,60	2,04	7	2,92	2,16		
8	2,46	1,92	8	2,92	2,13		
9	2,97	2,39	9	3,12	2,76		
10	2,94	2,51	10	3,08	2,66		

6,06

6,08

3005 up	Laag => hoog	T1	T2	3005 down	Laag => hoog	T1	T2
	1	1,39	0,48		1	1,32	0,54
2	1,38	0,33	2	1,38	0,52		
3	1,41	0,54	3	1,37	0,68		
4	2,07	1,56	4	2,09	1,59		
5	2,04	1,50	5	2,08	1,63		
6	2,09	1,56	6	2,13	1,65		
7	2,50	2,12	7	2,77	2,20		
8	2,52	2,18	8	2,74	2,22		
9	2,93	2,84	9	3,02	2,68		
10	2,81	2,72	10	2,98	2,77		

9,05

8,54

6005 up	Laag => hoog	T1	T2	6005 down	Laag => hoog	T1	T2
	1	1,36	0,55		1	1,35	0,62
2	1,38	0,62	2	1,32	0,55		
3	1,39	0,64	3	1,36	0,64		
4	2,03	1,50	4	2,12	1,71		
5	2,00	1,55	5	2,12	1,64		
6	2,03	1,59	6	2,14	1,66		
7	2,70	2,19	7	2,69	2,19		
8	2,46	2,14	8	2,70	2,23		
9	2,85	2,48	9	3,11	2,72		
10	2,75	2,55	10	3,28	2,64		

7,84

8,65

Remarks



Lisport XL

Ball Roll

9005 up	Laag => hoog	T1	T2	9005 down	Laag => hoog	T1	T2
	1				1		
	2				2		
	3				3		
	4				4		
	5				5		
	6				6		
	7				7		
	8				8		
	9				9		
	10				10		

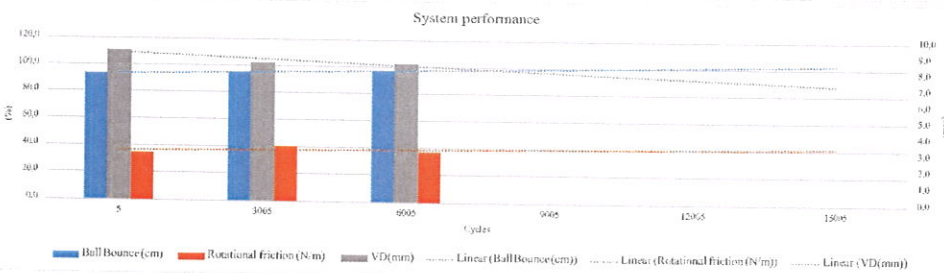
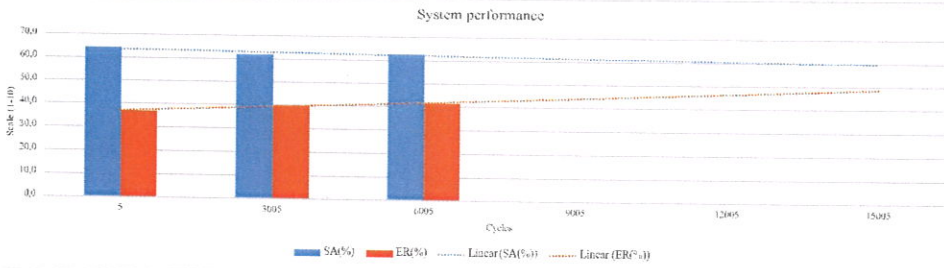
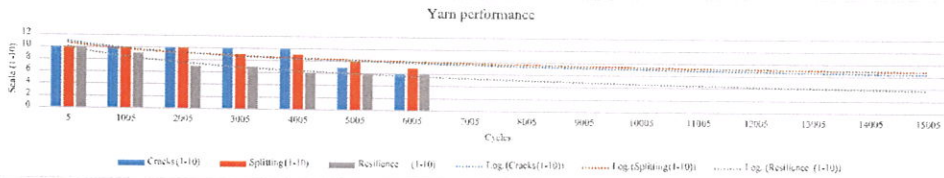
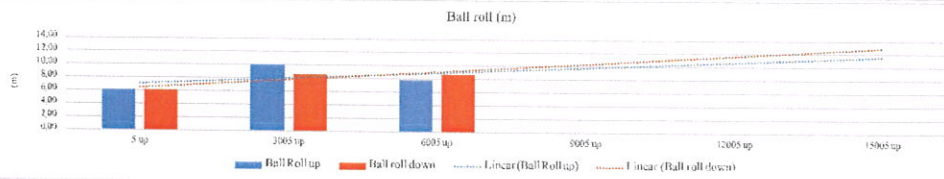
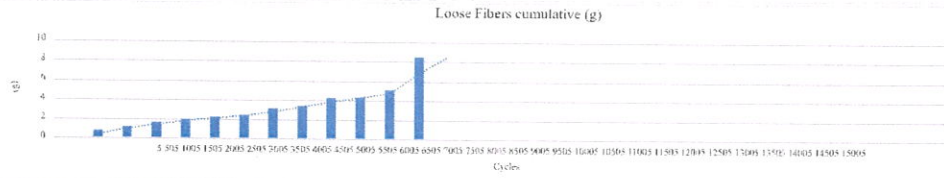
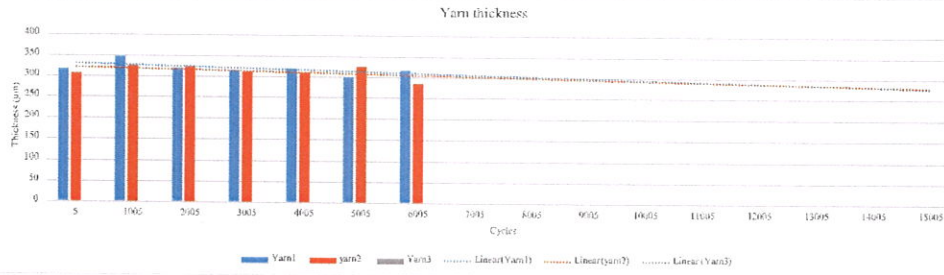
12005 up	Laag => hoog	T1	T2	12005 down	Laag => hoog	T1	T2
	1				1		
	2				2		
	3				3		
	4				4		
	5				5		
	6				6		
	7				7		
	8				8		
	9				9		
	10				10		

15005 up	Laag => hoog	T1	T2	15005 down	Laag => hoog	T1	T2
	1				1		
	2				2		
	3				3		
	4				4		
	5				5		
	6				6		
	7				7		
	8				8		
	9				9		
	10				10		

Remarks



Lisport XL





CTS-Agri Laboratory
Malledijk 18
P.O.Box 200
3200 AE Spijkenisse
Dir Tel +31 (0)181 69 45 00
Dir Fax +31 (0)181 69 45 06
Email: foodlabs@sgs.com

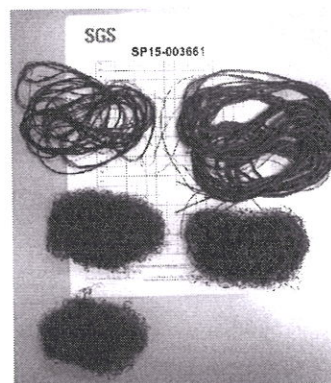
TEN CATE THIOLON BV
Attn: Mr. Niels Kolkman
G. van der Muelenweg 2
7440 AA Nijverdal
The Netherlands

ANALYTICAL REPORT SP15-003661

The analysis of the sample said to be : Consumer Products

Article description : TenCate Samples
Article no : -
Date sample received : 06-02-2015
Testing Period : 06-02-2015 till 20-02-2015

(* Based on CR 14379/ASTM F963)



<u>Sample</u>	<u>Description</u>
001	TenCate Monsoslide Classic 7200/8 MF rR field/olive - Light
002	TenCate Monsoslide Classic 7200/8 MF rR field/olive - dark
003	TenCate Monsoslide Classic 12000/8 MF O field/olive - Light
004	TenCate Monsoslide Classic 12000/8 MF O field/olive - Dark
005	TenCate Oasis TXT 5000/8 MF R field/jute - Brown
006	TenCate Oasis TXT 5000/8 MF R field/jute - Green
007	TenCate Oasis TXT 5000/8 MF R brown/jute - Light brown
008	TenCate Oasis TXT 5000/8 MF R brown/jute - Dark brown
009	TenCate Oasis TXT 5000/8 MF R moss/hazel - Brown
010	TenCate Oasis TXT 5000/8 MF R moss/hazel - Green
011	TenCate Backing P16

Test Requested

EN 71-3 Safety of Toys - Migration of Certain Elements 2014 CAT III

Method

EN71-3

Result

PASS

Report no.: SP15-003661
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R.C. Rotterdam No. 24226722

Member of the SGS Group

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EN 71-3 Safety of Toys - Migration of Certain Elements 2014 CAT III

Method: With reference to EN71-3 (2013+A1:2014). Analysis of general elements is performed by ICP-MS. If confirmation of Chromium (III) and Chromium (VI) has been performed, Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by LC-ICPMS.

		mg/kg				Permissible Limit (mg/kg)
		001	002	003	004	
Weight of the sample	g	0,25	0,25	0,25	0,25	
Soluble Aluminium	Al	<50	<50	<50	<50	70.000
Soluble Antimony	Sb	<10	<10	<10	<10	560
Soluble Arsenic	As	<10	<10	<10	<10	47
Soluble Barium	Ba	<50	<50	<50	<50	18.750
Soluble Boron	B	<50	<50	<50	<50	15.000
Soluble Cadmium	Cd	<5,0	<5,0	<5,0	<5,0	17
Soluble Chromium	Cr	0,23	<0,15	<0,15	0,17	--
Soluble Chromium (III)	Cr(III)	<1	<1	<1	<1	460
Soluble Chromium (VI)	Cr(VI)	<0,18	<0,18	<0,18	<0,18	0,2
Soluble Cobalt	Co	<10	<10	<10	<10	130
Soluble Copper	Cu	<50	<50	<50	<50	7.700
Soluble Lead	Pb	<10	<10	<10	<10	160
Soluble Manganese	Mn	<50	<50	<50	<50	15.000
Soluble Mercury	Hg	<10	<10	<10	<10	94
Soluble Nickel	Ni	<10	<10	<10	<10	930
Soluble Selenium	Se	<10	<10	<10	<10	460
Soluble Strontium	Sr	<50	<50	<50	<50	56.000
Soluble Tin	Sn	<4,9	<4,9	<4,9	<4,9	180.000
Soluble Organic Tin	--	<12	<12	<12	<12	12
Soluble Zinc	Zn	<50	<50	<50	<50	46.000
Conclusion		PASS	PASS	PASS	PASS	

- Note:
- NC = Not conducted
 - INCONCLUSIVE = Confirmation test is recommended.
 - Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3 (2013+A1:2014). Confirmation shall be subcontracted within The SGS group.
 - Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3 (2013+A1:2014). Confirmation shall be subcontracted within The SGS group.

		mg/kg				Permissible Limit (mg/kg)
		005	006	007	008	
Weight of the sample	g	0,26	0,25	0,25	0,25	
Soluble Aluminium	Al	<50	<50	<50	<50	70.000
Soluble Antimony	Sb	<10	<10	<10	<10	560
Soluble Arsenic	As	<10	<10	<10	<10	47
Soluble Barium	Ba	<50	<50	<50	<50	18.750
Soluble Boron	B	<50	<50	<50	<50	15.000
Soluble Cadmium	Cd	<5,0	<5,0	<5,0	<5,0	17
Soluble Chromium	Cr	<0,15	<0,15	<0,15	<0,15	--
Soluble Chromium (III)	Cr(III)	<1	<1	<1	<1	460
Soluble Chromium (VI)	Cr(VI)	<0,18	<0,18	<0,18	<0,18	0,2
Soluble Cobalt	Co	<10	<10	<10	<10	130
Soluble Copper	Cu	<50	<50	<50	<50	7.700
Soluble Lead	Pb	<10	<10	<10	<10	160
Soluble Manganese	Mn	<50	<50	<50	<50	15.000
Soluble Mercury	Hg	<10	<10	<10	<10	94
Soluble Nickel	Ni	<10	<10	<10	<10	930
Soluble Selenium	Se	<10	<10	<10	<10	460
Soluble Strontium	Sr	<50	<50	<50	<50	56.000
Soluble Tin	Sn	<4,9	<4,9	<4,9	<4,9	180.000
Soluble Organic Tin	--	<12	<12	<12	<12	12
Soluble Zinc	Zn	<50	<50	<50	<50	46.000
Conclusion		PASS	PASS	PASS	PASS	

- Note:
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 - Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3 (2013+A1:2014). Confirmation shall be subcontracted within The SGS group.

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		mg/kg			Permissible Limit (mg/kg)
		009	010	011	
Weight of the sample	g	0,25	0,25	0,25	
Soluble Aluminium	Al	<50	<50	<50	70.000
Soluble Antimony	Sb	<10	<10	<10	560
Soluble Arsenic	As	<10	<10	<10	47
Soluble Barium	Ba	<50	<50	<50	18.750
Soluble Boron	B	<50	<50	<50	15.000
Soluble Cadmium	Cd	<5,0	<5,0	<5,0	17
Soluble Chromium	Cr	<0,15	<0,15	0,30	--
Soluble Chromium (III)	Cr(III)	<1	<1	<1	460
Soluble Chromium (VI)	Cr(VI)	<0,18	<0,18	<0,18	0,2
Soluble Cobalt	Co	<10	<10	<10	130
Soluble Copper	Cu	<50	<50	<50	7.700
Soluble Lead	Pb	<10	<10	<10	160
Soluble Manganese	Mn	<50	<50	<50	15.000
Soluble Mercury	Hg	<10	<10	<10	94
Soluble Nickel	Ni	<10	<10	<10	930
Soluble Selenium	Se	<10	<10	<10	460
Soluble Strontium	Sr	<50	<50	<50	56.000
Soluble Tin	Sn	<4,9	<4,9	<4,9	180.000
Soluble Organic Tin	--	<12	<12	<12	12
Soluble Zinc	Zn	<50	<50	<50	46.000
Conclusion		PASS	PASS	PASS	

- Note:
- NC = Not conducted
 - INCONCLUSIVE = Confirmation test is recommended.
 - Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3 (2013+A1:2014). Confirmation shall be subcontracted within The SGS group.
 - Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3 (2013+A1:2014). Confirmation shall be subcontracted within The SGS group.

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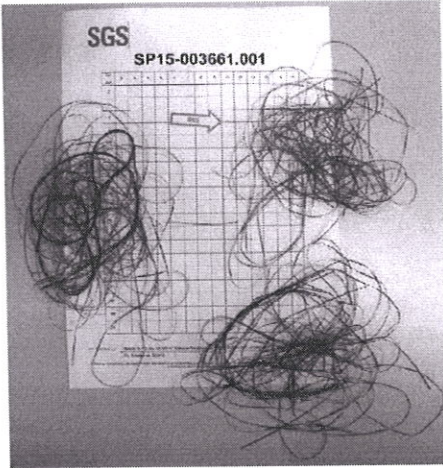
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R.C. Rotterdam No. 24226722

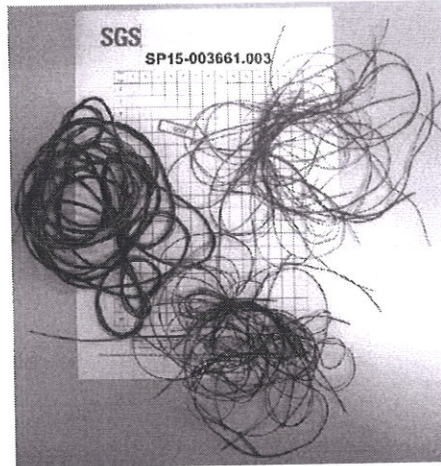
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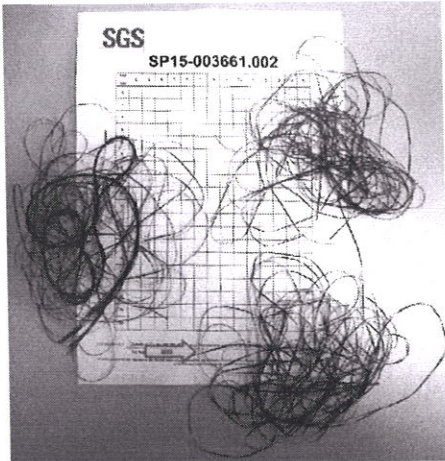
Sample: 001
Description: TenCate Monsoslide Classic 7200/8 MF rR
field/olive - Light



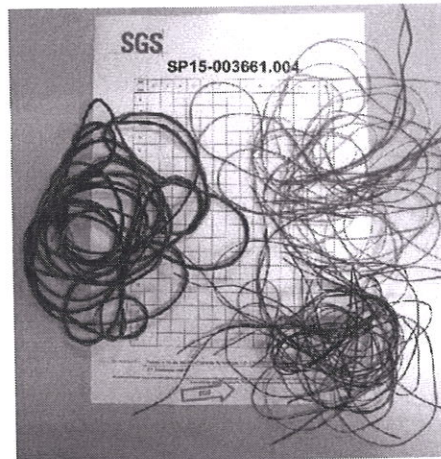
Sample: 003
Description: TenCate Monsoslide Classic 12000/8 MF O
field/olive - Light



Sample: 002
Description: TenCate Monsoslide Classic 7200/8 MF rR
field/olive - dark



Sample: 004
Description: TenCate Monsoslide Classic 12000/8 MF O
field/olive - Dark



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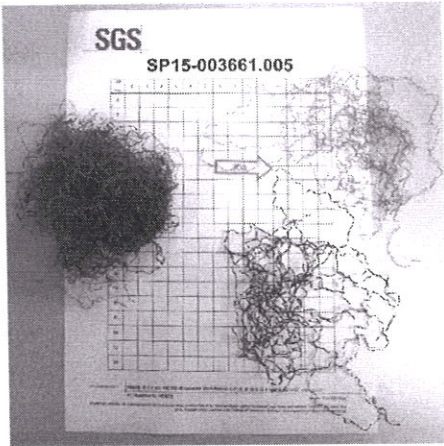
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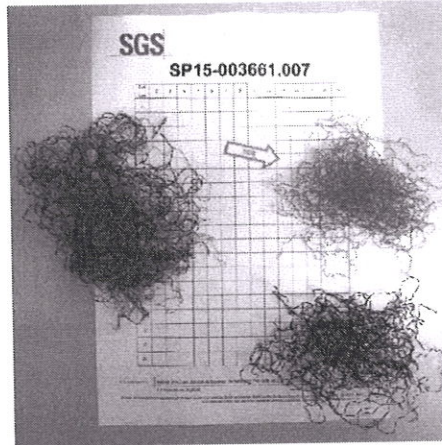
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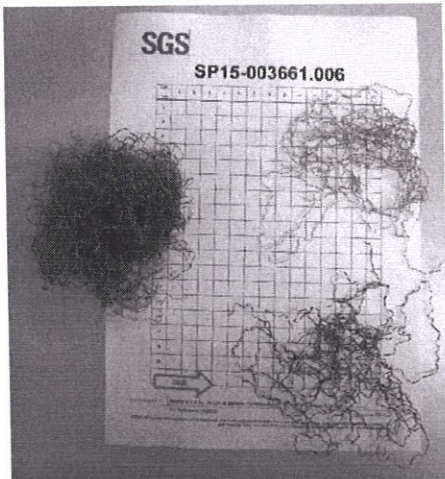
Sample: 005
Description: TenCate Oasis TXT 5000/8 MF R field/jute - Brown



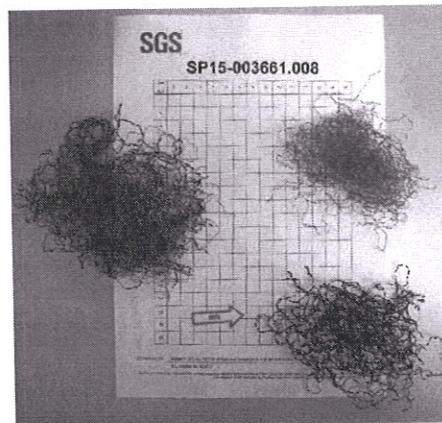
Sample: 007
Description: TenCate Oasis TXT 5000/8 MF R brown/jute - Light brown



Sample: 006
Description: TenCate Oasis TXT 5000/8 MF R field/jute - Green



Sample: 008
Description: TenCate Oasis TXT 5000/8 MF R brown/jute - Dark brown



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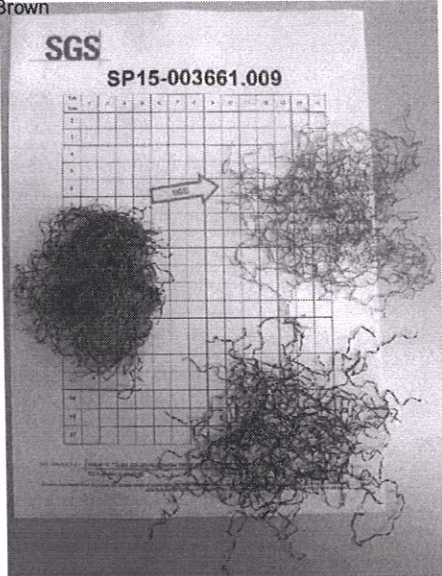
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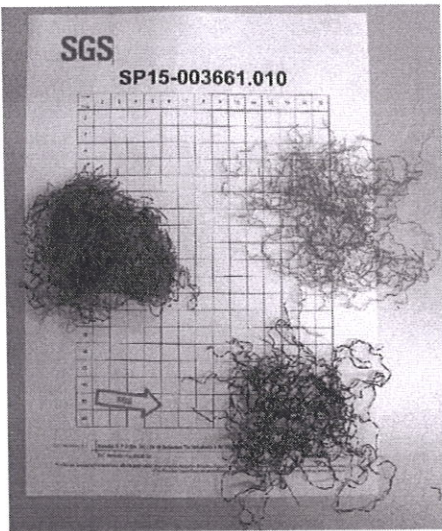
Sample: 009
Description: TenCate Oasis TXT 5000/8 MF R moss/hazel - Brown



Sample: 011
Description: TenCate Backing P16



Sample: 010
Description: TenCate Oasis TXT 5000/8 MF R moss/hazel - Green



Spijkernisse, 20 February 2015
SGS Consumer Testing Services

E.A.M. van Meurs
Laboratory Manager

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