

FIFA INSTALLATION TEST REPORT

TM Football Turf | 2015
01.01.2015

Name	Centre for Outdoor Sport (CFOS) Burgess Hill - Football
Products	XM7 50-11,5 SBR
FIFA Licensee	FieldTurf Inc.
Test Institute	Sports Labs Ltd.

Test Number	144424
External Test Number	24948/8847s
Date of Test	02.04.2025
Test Result	Passed
Quality Level	FIFA Quality
Test Type	Initial

Licensee

Main Address

Name	FieldTurf Inc.
Address	7445 Cote-de-Liesse Rd, Suite 200
ZIP / City	H4T 1G2 / MONTREAL, QUEBEC
Website	www.fieldturf.com

Contact Email	
Contact Phone	
Contact Mobile	

Test institute

Main Address

Name	Sports Labs Ltd.
Address	1 Adam Square Brucefield Industrial Park
ZIP / City	EH54 9DE / LIVINGSTON
Website	www.sportslabs.co.uk
Contact Email	info@sportslabs.co.uk
Contact Phone	+44/1506 44 755
Contact Mobile	

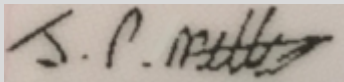
Applicant

Main Address

Name / Club	- Centre for Outdoor Sport (CFOS) Burgess Hill - Football
Address	Hassocks
ZIP / City	BN6 9LE
Website	

Approval

Test Institute Director	Richard Nixon
Signature	
Date	28.04.2025

Test Institute Engineer	Joe Mellor
Signature	
Date	28.04.2025

1 – Test Results

Name	Comment	Result
1 – Summary		
Visual inspection	Mandatory	Passed
Product Identification field product	Mandatory	Passed
Product Identification line product	Mandatory	Passed
Vertical ball rebound	Mandatory	Passed
Ball Roll	Mandatory	Passed
Shock absorbency	Mandatory	Passed
Rotational resistance	Mandatory	Passed
Deformation	Mandatory	Passed
Regularity of the surface	Mandatory	Passed
Does any additional testing or diagnostic performed fails?		No
Field design Minimising infill migration into the environment Drainage filters	Recommended	No
Maintenance equipment	Mandatory	Passed
2 - Test Details Maintenance		
Date of maintenance training by licensee	Mandatory	02.12.2024
Participants names (ground staff)	Mandatory	Facility Staff
Tractor Unit	Mandatory	Yes
Drag Brush	Mandatory	Yes
Ball Roll Ramp	Mandatory	Yes
Maintenance logbook	Mandatory	Yes
Maintenance Manual	Mandatory	Yes
Top up infill material	Mandatory	Yes
2 - Test Details Object		
Date of installation		02.04.2025
Product Name Field		FieldTurf XM7 50-11,5 SBR
Product Name Lines		XM7 50-11,5 White Lines
Installer		S&C Slatters
Synthetic Turf System		FT XM7 50-11,5
Performance infill		SBR
Stabilising infill		Silica sand
Shock-pad or elastic layer		NA
Sub-base composition		Engineered
Field dimension length [m]	min. 90m / max.120m	100.0
Field dimension width [m]	min. 45m / max. 90m	64.0
2 - Test Details Technicians, weather conditions		
Date(s) of test		02.04.2025
FIFA accredited Engineer on site		Sam Johnson
Other Test Engineer on site		Joe Mellor, Or Shay
Test Institute Project number		24948/8847s
Surface condition Day 1	Dry or Wet	Dry
Surface temperature °C (min.) Day 1		14.00
Surface temperature °C (max.) Day 1		14.00
Ambient temperature °C (min.) Day 1		15.00

Name	Comment	Result
Ambient temperature °C (max.) Day 1		15.00
Humidity %RH (min.) Day 1		56.00
Humidity %RH (max.) Day 1		56.00
Maximum wind speed m/s Ball Roll		1.30
Maximum wind speed m/s Ball Rebound		1.30
3 – Test Results Ball / Surface Interaction		
Vertical Rebound 1	0.60 – 1.00 m	0.72
Vertical Rebound 2	0.60 – 1.00 m	0.75
Vertical Rebound 3	0.60 – 1.00 m	0.73
Vertical Rebound 4	0.60 – 1.00 m	0.74
Vertical Rebound 5	0.60 – 1.00 m	0.73
Vertical Rebound 6	0.60 – 1.00 m	0.73
Consistency 1	± 10%	1.00
Consistency 2	± 10%	2.00
Consistency 3	± 10%	1.00
Consistency 4	± 10%	1.00
Consistency 5	± 10%	1.00
Consistency 6	± 10%	0.00
Ball roll 1	4.0 – 10.0 m	5.70
Ball roll 2	4.0 – 10.0 m	5.30
Ball roll 3	4.0 – 10.0 m	5.40
Ball roll 4	4.0 – 10.0 m	4.90
Ball roll 5	4.0 – 10.0 m	5.60
Ball roll 6	4.0 – 10.0 m	4.70
Consistency 1	± 15%	8.00
Consistency 2	± 15%	0.00
Consistency 3	± 15%	3.00
Consistency 4	± 15%	8.00
Consistency 5	± 15%	6.00
Consistency 6	± 15%	12.00
3 – Test Results Player / Surface Interaction		
Rotational resistance 1	25-50Nm	30.00
Rotational resistance 2	25-50Nm	30.00
Rotational resistance 3	25-50Nm	31.00
Rotational resistance 4	25-50Nm	31.00
Rotational resistance 5	25-50Nm	30.00
Rotational resistance 6	25-50Nm	30.00
Consistency 1	± 10%	1.00
Consistency 2	± 10%	1.00
Consistency 3	± 10%	2.00
Consistency 4	± 10%	3.00
Consistency 5	± 10%	1.00
Consistency 6	± 10%	2.00
Shock absorption A	55.0 – 70.0%	58.50
Shock absorption B	55.0 – 70.0%	60.60
Shock absorption C	55.0 – 70.0%	60.50
Shock absorption D	55.0 – 70.0%	61.20
Shock absorption E	55.0 – 70.0%	60.40
Shock absorption F	55.0 – 70.0%	61.90
Shock absorption G	55.0 – 70.0%	57.10
Shock absorption H	55.0 – 70.0%	60.20
Shock absorption I	55.0 – 70.0%	58.70

Name	Comment	Result
Shock absorption J	55.0 – 70.0%	55.30
Shock absorption K	55.0 – 70.0%	56.00
Shock absorption L	55.0 – 70.0%	61.30
Shock absorption M	55.0 – 70.0%	60.00
Shock absorption N	55.0 – 70.0%	56.70
Shock absorption O	55.0 – 70.0%	59.60
Shock absorption P	55.0 – 70.0%	60.60
Shock absorption Q	55.0 – 70.0%	61.60
Shock absorption R	55.0 – 70.0%	61.10
Shock absorption S	55.0 – 70.0%	61.00
Consistency A	± 10%	2.00
Consistency B	± 10%	2.00
Consistency C	± 10%	2.00
Consistency D	± 10%	3.00
Consistency E	± 10%	1.00
Consistency F	± 10%	4.00
Consistency G	± 10%	4.00
Consistency H	± 10%	1.00
Consistency I	± 10%	2.00
Consistency J	± 10%	8.00
Consistency K	± 10%	6.00
Consistency L	± 10%	3.00
Consistency M	± 10%	1.00
Consistency N	± 10%	5.00
Consistency O	± 10%	0.00
Consistency P	± 10%	2.00
Consistency Q	± 10%	3.00
Consistency R	± 10%	2.00
Consistency S	± 10%	2.00
Deformation A	4.0 – 11.0 mm	8.00
Deformation B	4.0 – 11.0 mm	8.50
Deformation C	4.0 – 11.0 mm	9.00
Deformation D	4.0 – 11.0 mm	9.00
Deformation E	4.0 – 11.0 mm	8.50
Deformation F	4.0 – 11.0 mm	9.00
Deformation G	4.0 – 11.0 mm	8.00
Deformation H	4.0 – 11.0 mm	8.50
Deformation I	4.0 – 11.0 mm	8.50
Deformation J	4.0 – 11.0 mm	8.50
Deformation K	4.0 – 11.0 mm	7.50
Deformation L	4.0 – 11.0 mm	8.50
Deformation M	4.0 – 11.0 mm	8.50
Deformation N	4.0 – 11.0 mm	7.50
Deformation O	4.0 – 11.0 mm	8.50
Deformation P	4.0 – 11.0 mm	8.50
Deformation Q	4.0 – 11.0 mm	9.00
Deformation R	4.0 – 11.0 mm	8.50
Deformation S	4.0 – 11.0 mm	8.50
Consistency A	± 15%	3.00
Consistency B	± 15%	3.00
Consistency C	± 15%	5.00
Consistency D	± 15%	4.00

Name	Comment	Result
Consistency E	± 15%	1.00
Consistency F	± 15%	5.00
Consistency G	± 15%	8.00
Consistency H	± 15%	2.00
Consistency I	± 15%	1.00
Consistency J	± 15%	1.00
Consistency K	± 15%	10.00
Consistency L	± 15%	1.00
Consistency M	± 15%	1.00
Consistency N	± 15%	13.00
Consistency O	± 15%	0.00
Consistency P	± 15%	3.00
Consistency Q	± 15%	4.00
Consistency R	± 15%	3.00
Consistency S	± 15%	1.00
3 – Test Results Product identification field product		
Carpet mass [g/m ²] Sample on site		2483
Carpet mass [g/m ²] Product Declaration		2255.0
Carpet mass [g/m ²] Variation	≤ ± 10%	10
Tufts / m ² Sample on site		7181
Tufts / m ² Product Declaration		7244.0
Tufts / m ² [%] Variation	≤ ± 10%	1
Tuft withdrawal force [N] Sample on site	≥ 40 N	69
Tuft withdrawal force [N] Product Declaration		40.0
Tuft withdrawal force [N] Variation	≥ 90%	173
Pile length above backing [mm] Sample on site yarn 1		50
Pile length above backing [mm] Product Declaration yarn 1		50.0
Pile length above backing [mm] Variation yarn 1	≤ ± 5%	0
Pile weight above backing [g/m ²] Sample on site yarn 1		1069
Pile weight above backing [g/m ²] Product Declaration yarn 1		1115.0
Pile weight above backing [g/m ²] Variation yarn 1	≤ ± 10%	4
Pile yarn dtex [g/10000m] Sample on site yarn 1		13259
Pile yarn dtex [g/10000m] Product Declaration yarn 1		13300.0
Pile yarn dtex [g/10000m] Variation yarn 1	≤ ± 10%	0
Pile yarn characteristics Sample on site yarn 1		LG: 113.87
Pile yarn characteristics Product Declaration yarn 1		LG: 115.43
Pile yarn characteristics Variation yarn 1	Same polymer	Yes
Pile yarn characteristics Sample on site yarn 2		DG: 113.27
Pile yarn characteristics Product Declaration yarn 2		DG: 115.07
Pile yarn characteristics Variation yarn 2	Same polymer	Yes
Yarn Thickness [µm] Sample on site yarn 1		328
Yarn Thickness [µm] Product Declaration yarn 1		360.0
Yarn Thickness [%] Variation yarn 1	≥ 90%	91
Yarn Thickness [µm] Sample on site yarn 2		369
Yarn Thickness [µm] Product Declaration yarn 2		360.0
Yarn Thickness [%] Variation yarn 2	≥ 90%	103
Water permeability of carpet [mm/h] Sample on site	≥ 180 mm/h	3238
Water permeability of carpet [mm/h] Lab result	≥ 180 mm/h	2483

Name	Comment	Result
Water permeability of carpet [%] Variation	> 75 % of lab result	130
UV stabilizer yarn sample retained		Yes
Performance infill Particle size range Sample on site		0.80 - 2.0
Performance infill Particle size range Product Declaration		0.63 - 2.50
Performance infill Particle size range Variation	±one sieve; 60 %	Within tolerance
Performance infill Particle shape Sample on site		A2
Performance infill Particle shape Product Declaration		Angular
Performance infill Particle shape Variation	Similar shape	Yes
Performance infill Bulk density [g/cm ³] Sample on site		0.410
Performance infill Bulk density [g/cm ³] Product Declaration		0.430
Performance infill Bulk density [g/cm ³] Variation	≤ ± 15 %	5.00
Performance infill Thermographic analysis Organic [%]		62.0
Performance infill Thermographic analysis Organic [%] - Product Declaration		64.0
Performance infill Thermographic analysis Organic [%] - Variation		3.0
Performance infill Thermographic analysis Inorganic [%]		38.0
Performance infill Thermographic analysis Inorganic [%] - Product Declaration		36.0
Performance infill Thermographic analysis Inorganic [%] - Variation		6.0
Performance infill Thermographic analysis Elastomer [%]		55.0
Performance infill Thermographic analysis Elastomer [%] - Product Declaration		61.0
Performance infill Thermographic analysis Elastomer [%] - Variation		10.0
Stabilizing infill Particle size range Sample on site		0.315 - 0.80
Stabilizing infill Particle size range Product Declaration		0.315 - 1.0
Stabilizing infill Particle size range Variation	±one sieve; 60 %	Within tolerance
Stabilizing infill Particle shape Sample on site		C2
Stabilizing infill Particle shape Product Declaration		Rounded
Stabilizing infill Particle shape Variation	Similar shape	Yes
Stabilizing infill Bulk density [g/cm ³] Sample on site		1.46
Stabilizing infill Bulk density [g/cm ³] Product Declaration		1.40
Stabilizing infill Bulk density [g/cm ³] Variation	≤ ± 15 %	4
3 – Test Results Product identification line product		
Carpet mass [g/m ²] Sample on site		2466
Carpet mass [g/m ²] Product Declaration		2255.0
Carpet mass [g/m ²] Variation	≤ ± 10 %	9
Tufts / m ² Sample on site		7237
Tufts / m ² Product Declaration		7244.0

Name	Comment	Result
Tufts / m2 [%] Variation	$\leq \pm 10\%$	0
Tuft withdrawal force [N] Sample on site		57
Tuft withdrawal force [N] Product Declaration		40.0
Tuft withdrawal force [N] Variation	$\geq 90\%$	143
Pile length above backing [mm] Sample on site yarn 1		50
Pile length above backing [mm] Product Declaration yarn 1		50.0
Pile length above backing [mm] Variation yarn 1	$\leq \pm 5\%$	0
Pile weight above backing [g/m2] Sample on site yarn 1		1121
Pile weight above backing [g/m2] Product Declaration yarn 1		1115.0
Pile weight above backing [g/m2] Variation yarn 1	$\leq \pm 10\%$	1
Pile yarn dtex [g/10000m] Sample on site yarn 1		13994
Pile yarn dtex [g/10000m] Product Declaration yarn 1		13300.0
Pile yarn dtex [g/10000m] Variation yarn 1	$\leq \pm 10\%$	5
Pile yarn characteristics Sample on site yarn 1		111.83
Pile yarn characteristics Product Declaration yarn 1		113.80
Pile yarn characteristics Variation yarn 1	Same polymer	Yes
Yarn Thickness [μm] Sample on site yarn 1		355
Yarn Thickness [μm] Product Declaration yarn 1		360.0
Yarn Thickness [%] Variation yarn 1	$\geq 90\%$	99
Water permeability of carpet [mm/h] Sample on site	$\geq 180 \text{ mm/h}$	3298
Water permeability of carpet [mm/h] Lab result	$\geq 180 \text{ mm/h}$	0
Water permeability of carpet [%] Variation	$> 75\%$ of lab result	100
3 – Test Results Field characteristics		
Infill depth A	mm	35.00
Infill depth B	mm	36.00
Infill depth C	mm	35.00
Infill depth D	mm	34.00
Infill depth E	mm	36.00
Infill depth F	mm	35.00
Infill depth G	mm	33.00
Infill depth H	mm	35.00
Infill depth I	mm	35.00
Infill depth J	mm	28.00
Infill depth K	mm	34.00
Infill depth L	mm	36.00
Infill depth M	mm	37.00
Infill depth N	mm	33.00
Infill depth O	mm	34.00
Infill depth P	mm	36.00
Infill depth Q	mm	35.00
Infill depth R	mm	34.00
Infill depth S	mm	36.00
Free pile height A	mm	11.00
Free pile height B	mm	15.00
Free pile height C	mm	11.00
Free pile height D	mm	15.00
Free pile height E	mm	15.00
Free pile height F	mm	15.00

Name	Comment	Result
Free pile height G	mm	17.00
Free pile height H	mm	15.00
Free pile height I	mm	15.00
Free pile height J	mm	20.00
Free pile height K	mm	14.00
Free pile height L	mm	14.00
Free pile height M	mm	12.00
Free pile height N	mm	15.00
Free pile height O	mm	15.00
Free pile height P	mm	15.00
Free pile height Q	mm	15.00
Free pile height R	mm	15.00
Free pile height S	mm	15.00
Other, detail		Run offs: BR: 0.73, 0.74, 0.73, 0.72 SA: 55, 60, 64, 63 Def: 7.7, 8.5, 9.4, 9.3 RR: 30, 29, 32, 33

2 – Test Images

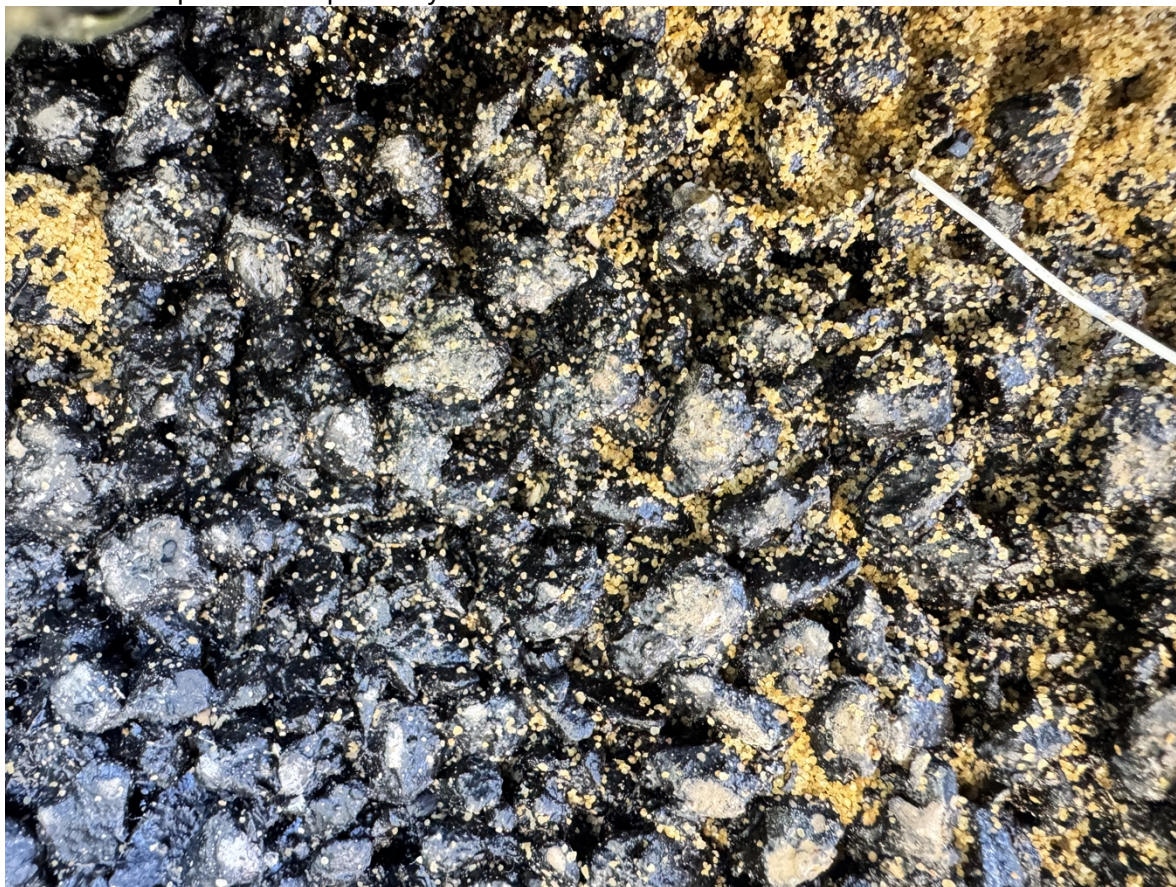
Maintenance equipment - tractor unit



Maintenance equipment - Ball roll ramp



Annexes to report - Shockpad/E-layer check



Annexes to report - Photo of field from centre



Annexes to report - Photo of field from corner



Cross-section Yarn 1



Cross-section Yarn 2



Cross-section Yarn 3



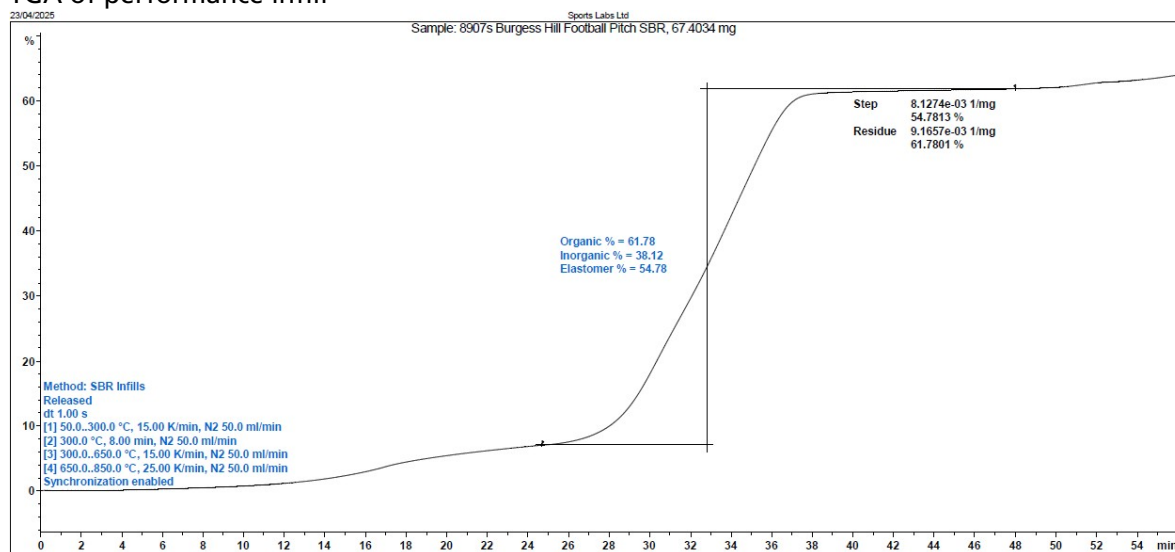
Stabilising Infill - picture



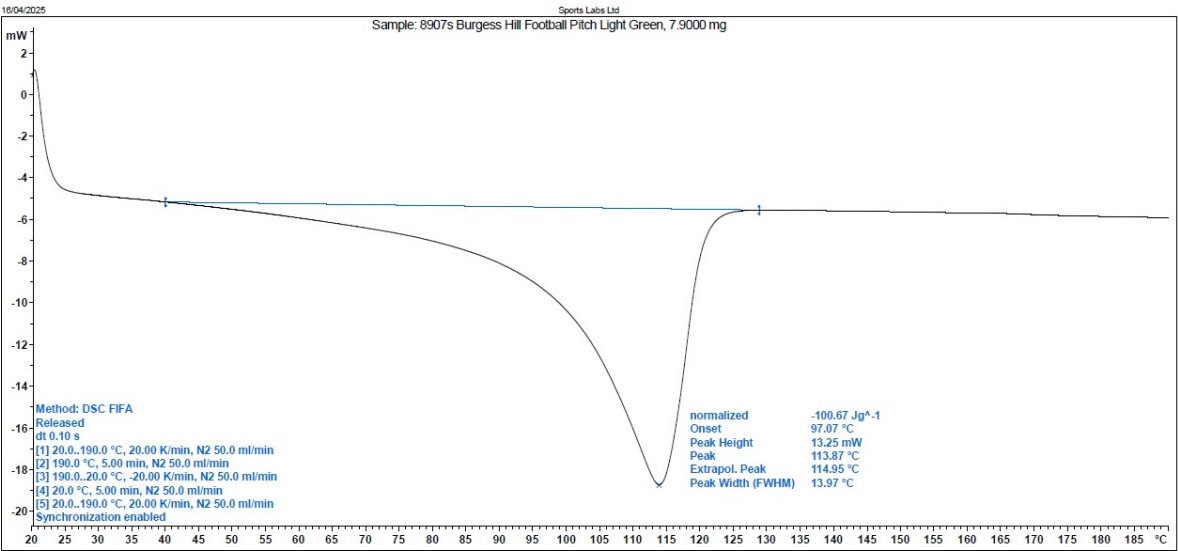
Performance Infill - picture



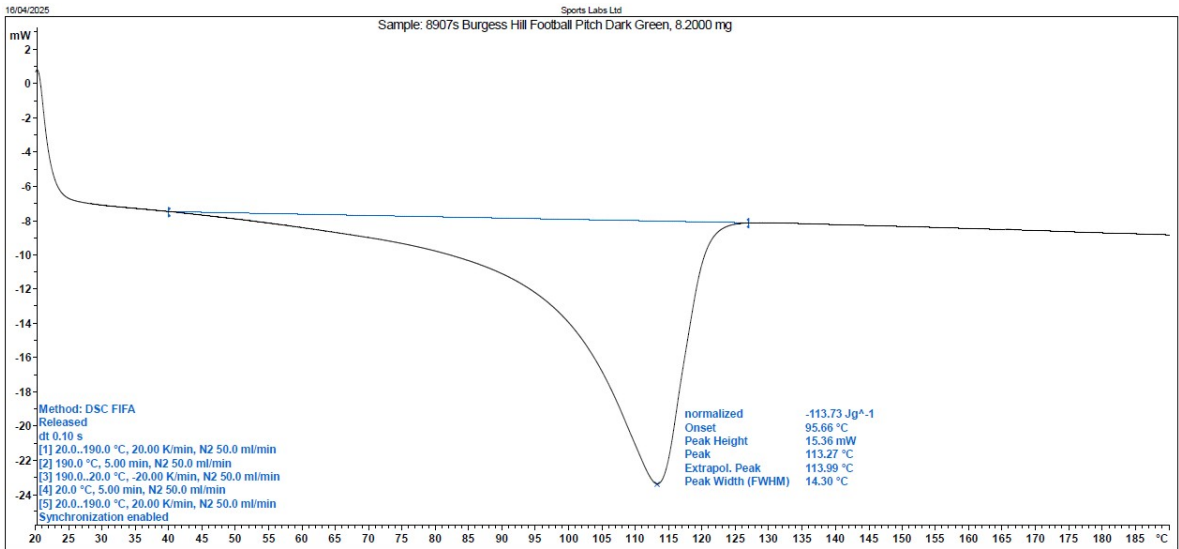
TGA of performance infill



Yarn Characteristics DSC



Yarn Characteristics DSC - 2



Yarn Characteristics DSC - 3

