LABORATORY PERFORMANCE REPORT

Exposure to Artificial weathering – UVA

In accordance with Accelerated Weathering – EN 14836: 2018*
& Greyscale for Assessing Change in Colour EN 20105-A02: 1995*

Sample Reference **GAIA Biodolomer ATP Grade 900337**

Report Number **10310/7194**

Report Status **Final**

Issue Date **21/01/2021**

Client **GAIA Biomaterials AB**
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FOREWORD

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4. *Not all tests carried out are within our scope of ISO 17025 Accreditation.
5. Comments and opinions are out with the scope of our ISO 17025 accreditation

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REGIONAL LOCATIONS
- USA
- Morocco
- Turkey
- South Africa
- Netherlands
- Belgium
- Norway
- Israel

1.0 INTRODUCTION

We refer to the infill sample identified as 'Biodolomer ATP Grade 900337' submitted to our Laboratory.

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Laboratory Manager
21/01/2021

Checked By Sean Ramsay

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21/01/2021

2.0 TESTING DETAILS

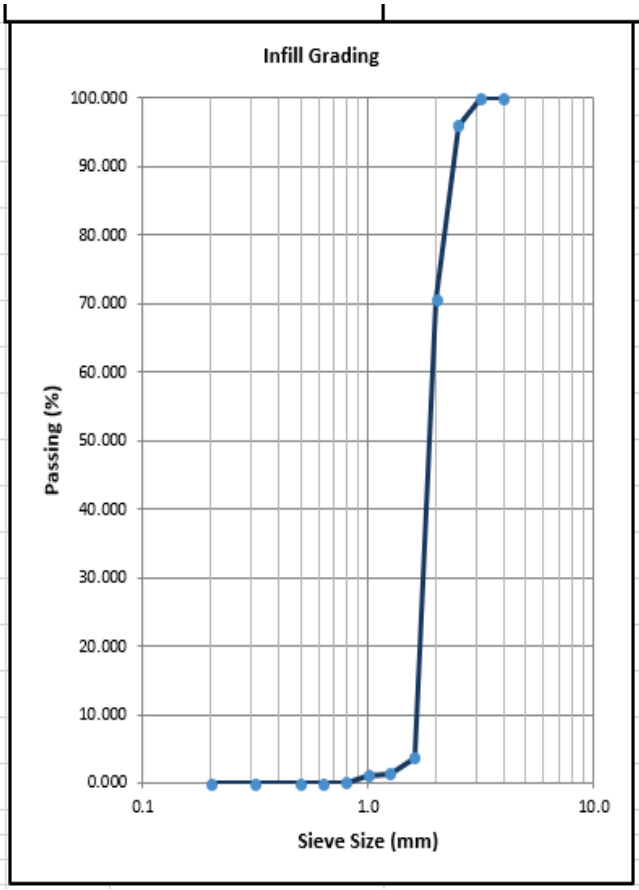
The tests were carried out in accordance with the following specifications and results can be viewed overleaf.

- Particle Size of Unbound Sub-bases – EN 933-1: 2012
- Bulk Density of Infill Materials – EN 1097-3: 1998
- Particle Shape of Infill Materials and Unbound Base Materials – EN 14955: 2005
- Assessment of Synthetic Infills – FIFA Test Method 11 (TGA) – FQP Handbook of Test Methods: October 2015 Edition
- *Accelerated Weathering – EN 14836: 2018
- *Greyscale for assessing change in colour - BS EN 20105-A02: 1995.

(*Not all tests carried out are within our scope of ISO 17025 Accreditation)

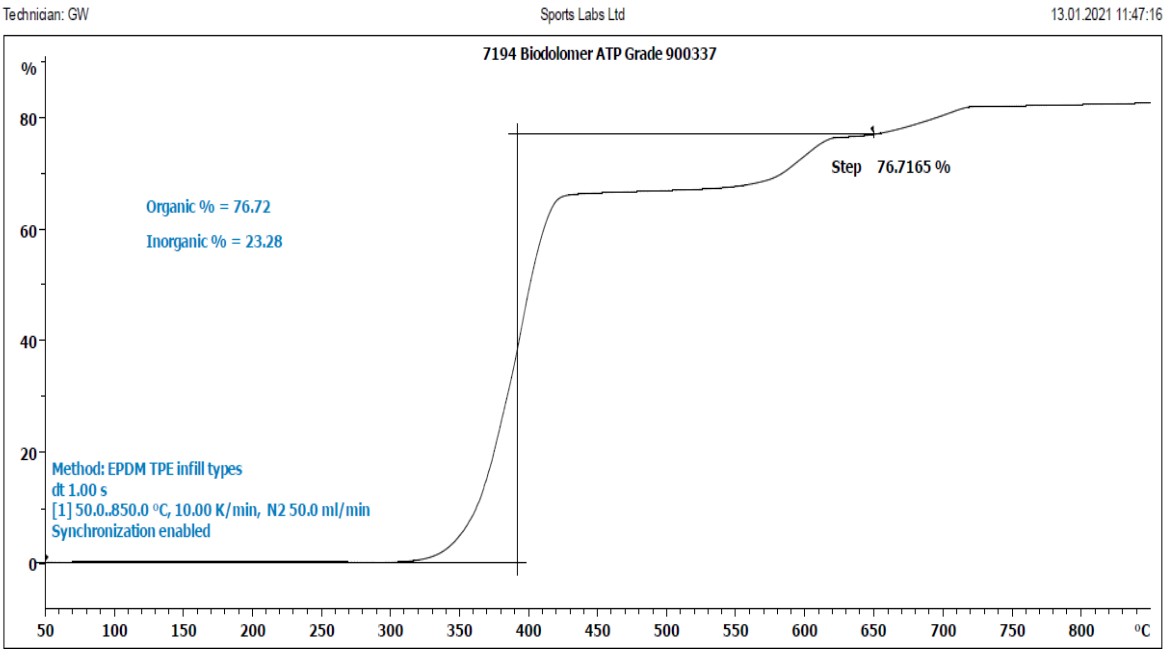
3.0 RESULTS

Infill Identification			
Characteristic	**Units**	**Test Method**	**Result**
Particle Size	mm	EN 933-1	1.6 – 2.5 mm
Particle Shape	-	EN 14955	C2
Bulk Density	g/cm³	EN 1097-3	0.667 g/cm³
Colour	-	-	White



Sieve Size (mm)	Passing (%)
4.000	100.0
3.150	100.0
2.500	96.0
2.000	70.5
1.600	3.8
1.250	1.4
1.000	1.1
0.800	0.0
0.630	0.0
0.500	0.0
0.315	0.0
0.200	0.0
Passing to base tray	0.0

TGA			
Characteristic	**Units**	**Test Method**	**Result**
% Organic	%	FIFA Test Method 11	76.72 %
% Inorganic			23.28 %



UVA (340 nm) 9600kJ ageing			
Characteristic	**Units**	**Test Method**	**Result**
Colour change (Greyscale)	-	EN 20105-A02 *	3 - 4
Visual change in composition	-	-	No Change

Sample Pictures	
Pre-Exposure	UVA (340 nm) 9600 kJ Exposure*
	

4.0 CONCLUSION

Compliance		
UVA (340 nm) 9600 kJ	FIFA Quality Programme for Football Turf – Handbook of Requirements: 2015 Edition World Rugby – Rugby Turf Performance Specification: 2016 Edition (December 2020)	**Complies**

END OF REPORT