

ANALYSIS REPORT

Sample Reference **BELLIN-GRE LANDSCAPE**

Report Number **10705/9253**

Report Status **Final**

Issue Date **26/10/2020**

Client **Qingdao Bellinturf Industrial Co.,Ltd**
No.8 Jilin Road, Beiguan Industrial Zone,
Jiaozhou, Qingdao, Shandong,
China

FOREWORD

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This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final".

Comments and opinions are outwith 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 synthetic turf sample delivered to our Laboratory for DSC analysis of the individual components of the product. The scope of the testing is to determine what type of polymer each component consists of, and therefore determine whether the product is 100% recyclable.

Prepared By

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26/10/2020

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Test Details	
Sample Reference	BELLIN-GRE LANDSCAPE
Date Received	05/10/2020
Test Date	13/10/2020
Temperature Range	21.0 – 25.0 °C
Humidity Range	40 – 60 %

2.0 TEST DETAILS

2.1 The test Specimens were prepared in accordance with the client's instructions and relevant test methods.

Test Method	Test Method Number
Polymer Characterisation (DSC)	FIFA Test Method 22

3.0 TEST RESULTS

The sample was separated into the individual components as shown in the image below, and the DSC analysis was run on each to determine the polymer type.



Component Number	Description	DSC Analysis Result
1	Synthetic turf Yarn (Dual-colour - Light green component)	Polyethylene (PE) 115.29 & 123.47°C
2	Synthetic turf Yarn (Dual-colour - Dark green component)	Polyethylene (PE) 114.90 & 122.87°C
3	Thatch Yarn (Dual-colour – Green component)	Polyethylene (PE) & Polypropylene (PP) Blend 122.83, 149.63 & 162.77°C
4	Thatch Yarn (Dual-colour – Beige component)	Polyethylene (PE) & Polypropylene (PP) Blend 122.33 & 162.47°C
5	Primary backing layer	Polypropylene (PP) 164.67°C
6	Coating	<i>Commercial Security</i>

4.0 CONCLUSION

The product utilizes a relatively new method of binding the pile fibres to the backing material, therefore making the application of traditional non-recyclable latex or PU coating unnecessary. According to the DSC analysis all components tested are 100% recyclable, and therefore can theoretically be 100% recycled through various methods of recycling.

End of Report