



## TEST REPORT

Laboratory test of an infill material for artificial turf system  
Tests performed according to EN 933, EN 1097, EN 14955, EN 14836 and  
ISO 20105-A02 standards

Report Number **R16286CAN-B1**

Product **TTII PRO-MAX 37 TPE**  
Target Technologies International Inc.

Client **Cornelia Candrea, Responsable R&D,**  
Felix Compounds, 3455 Rue Richelieu, Saint-Hubert, QC J3Y 7P9

Date **January 30<sup>th</sup>, 2018**

*This report contains 4 pages in total. Reproduction of this report is authorized only in its entire form. Results reported are valid only for the products tested. To declare the conformity (or not), the uncertainty of the results was not taken into account. Detailed results are available on request.*

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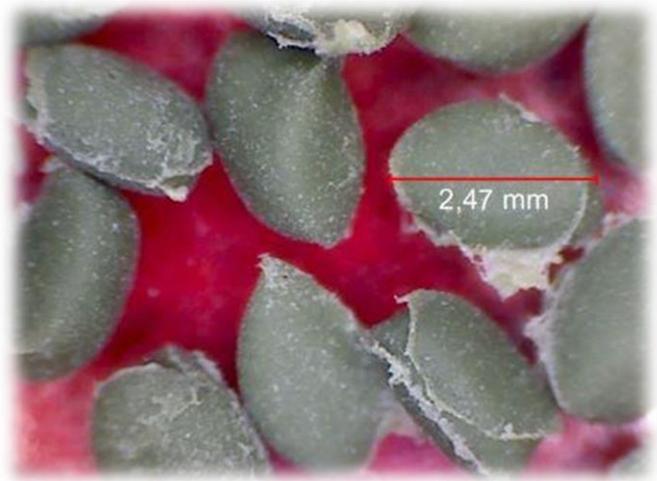
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## INFORMATION

Description of the product tested	Infill material for artificial turf system			
Product name	TTII PRO-MAX 37 TPE			
Manufacturer	Felix Compounds / Target Technologies International			
Type of polymer declared	TPE			
Sample number	CAN002508			
Date of reception	April 7 <sup>th</sup> , 2017			
Date of the tests	April to December 2017			
Temperature	Min	23°C	Max	24°C
Humidity	Min	48 %	Max	50 %



*General view*



*Microscopic view*

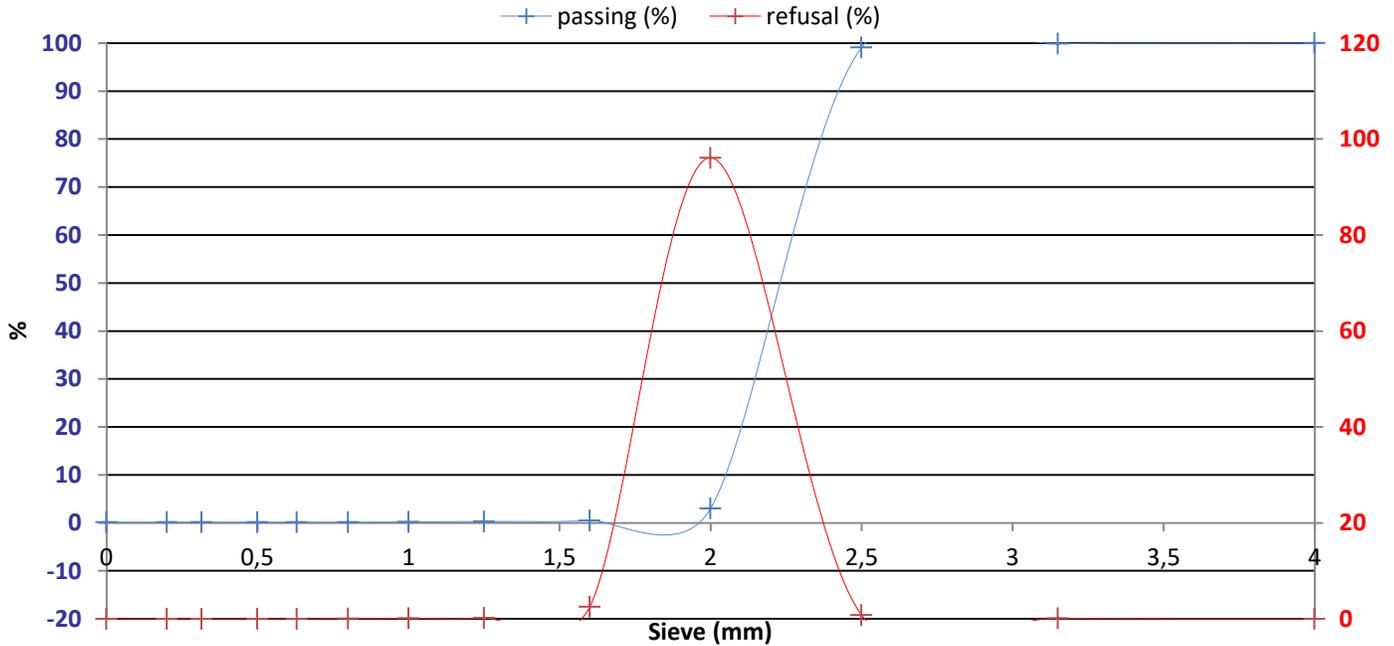
## IDENTIFICATION

Property	Method	Units	Results
Particle size	EN 933	mm	<b>2.0 – 2.5</b>
Bulk density	EN 1097	g/cm <sup>3</sup>	<b>0.82</b>
Particle shape	EN 14955	-	<b>Round – A2</b>
Color	Visual	-	<b>Green</b>
Chemical characterization	Thermogravimetric analysis (TGA)	% organic	<b>43.7</b>
		% inorganic	<b>56.3</b>
		% mass loss between beginning of 1 <sup>st</sup> peak (400°C) and 650C	<b>20.6</b>

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## PARTICLE DISTRIBUTION

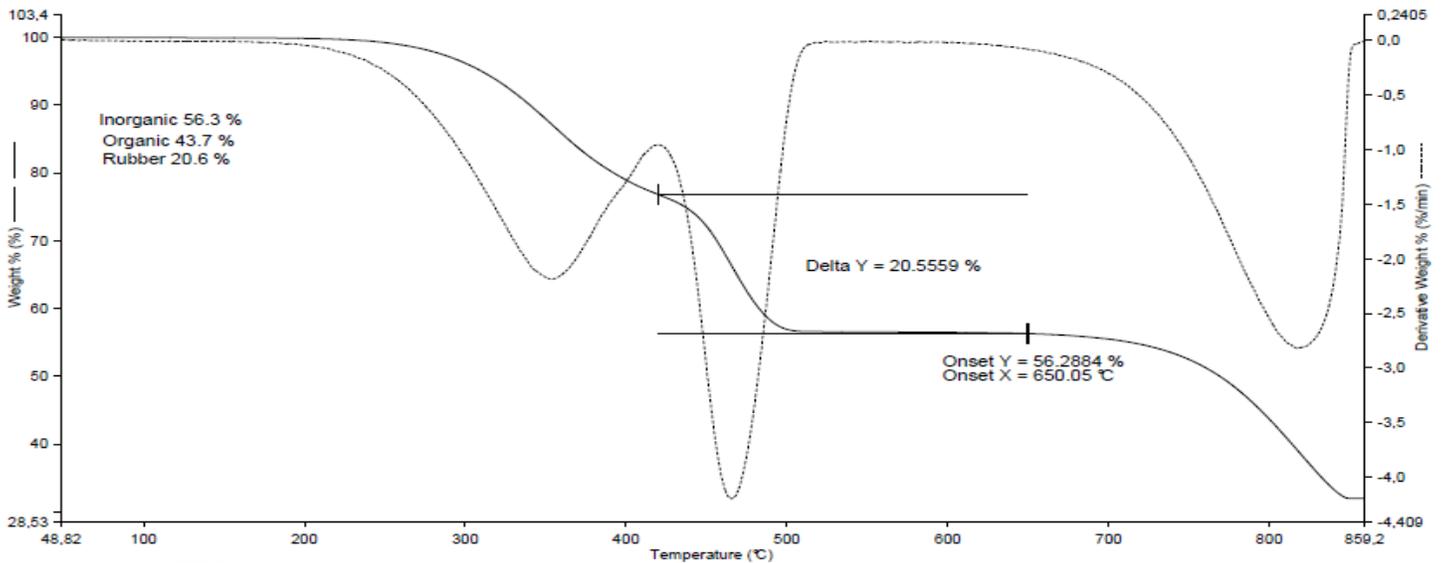
Sieve (mm)	0,000	0,200	0,315	0,500	0,630	0,800	1,000	1,250	1,600	2,000	2,500	3,150	4,000
Refusal (%)	0	0	0	0	0	0	0	0	2	96	1	0	0
Passing (%)	0	0	0	0	0	0	0	0	0	3	99	100	100



## THERMOGRAVIMETRIC ANALYSIS (TGA)

Data Collected: 31/01/2018 13:40:32  
 Operator ID: AKI  
 Sample ID: 16286 CAN  
 Sample Weight: 53.662 mg  
 Initial Purge Gas: Nitrogen  
 Comment: PerkinElmer TGA4000 - Serial number 522A2092805 - calibration : alumel / perkalloy / iron

16286 CAN: CAN 002741 (0551-01)  
 Unsubtracted Weight % (%): Steps: 1-3  
 16286 CAN: CAN 002741 (0551-01)  
 Derivative Unsubtracted Weight % (%/min) (Smoothed): Steps: 1-3



## UV WEATHERING

Property	Method	Condition	Units	Requirements		Results	Pass / Fail
				FIFA (2015 Manual)	World Rugby (2016 Manual)		
Color change	EN ISO 20105-A02	After UV EN 14836 (5000h)*	Grey scale index**	≥ 3	≥ 3	3/4	Pass
Visual aspect	Visual		-	No cracking or agglomeration	No cracking or agglomeration	No cracking or agglomeration	

\*Weathering: UVA 340 nm (9600kJ or around 5000h)

\*\*Grey Scale: 1 – 1/2 – 2 – 2/3 – 3 – 3/4 – 4 – 4/5 – 5 (=No change)

### Pictures:



*Before UV ageing*



*After UV ageing*

### REPORTED BY



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