

## TEST REPORT

### Laboratory tests on an infill material for artificial turf system

Tests performed according to the standards listed in the quote Q21413CAN

**Report Number** R21413CAN-B1

**Product** TTII PROMAX 37 TPE  
Target Technologies International

**Client** John B. Giraud,  
Target Technologies International Inc. 8535 Eastlake Drive, Burnaby BC V5A 4T7

**Date** December 08<sup>th</sup>, 2021

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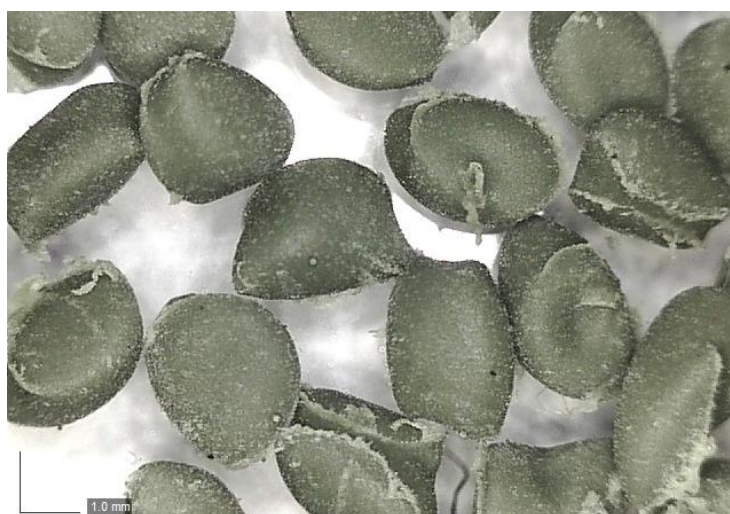


## INFORMATION

Product description	Performance infill for synthetic turf system			
Product name	TTII Pro-Max 37 TPE			
Product type	TPE			
Sample Number	CAN002491			
Date of reception	March 2017			
Date of tests	November 2021			
Temperature	MIN	22°C	MAX	24°C
Humidity	MIN	49 %	MAX	51 %



*General View*



*Microscopic View*

## RESULTS

### Toxicological analysis of heavy metals by leachate – DIN 18035-7:

Parameters	Units	Test method	Results	Requirements	Pass/Fail
Lead (Pb)	mg/L	DIN 18035-7	< 0.005	≤ 0.040	Pass
Cadmium (Cd)	mg/L	DIN 18035-7	< 0.001	≤ 0.005	Pass
Total Chromium (Cr)	mg/L	DIN 18035-7	< 0.002	≤ 0.050	Pass
Tin (Sn)	mg/L	DIN 18035-7	< 0.005	≤ 0.050	Pass
Chromium (Cr VI)	mg/L	DIN 18035-7	< 0.008	≤ 0.008	Pass
Mercury (Hg)	µg/L	DIN 18035-7	< 0.015	≤ 1	Pass
Zinc (Zn1)	mg/L	DIN 18035-7	< 0.005	≤ 0.50	Pass
DOC	mg/L	DIN 18035-7	8.67	≤ 40	Pass
EOX	mg/kg MS	DIN 18035-7	28	≤ 100	Pass

### Toxicological analysis of heavy metals – CAM 17:

Element	Units	Test method	Results	Requirements	Pass/Fail
Antimony	mg/kg	EPA 6020B	< 0.25	< 500	Pass
Arsenic	mg/kg	EPA 6020B	< 0.25	< 500	Pass
Barium	mg/kg	EPA 6020B	2.82	< 10 000	Pass
Cadmium	mg/kg	EPA 6020B	< 0.25	< 100	Pass
Chromium	mg/kg	EPA 6020B	0.455	< 500	Pass
Lead	mg/kg	EPA 6020B	0.63	< 1 000	Pass
Selenium	mg/kg	EPA 6020B	< 0.25	< 100	Pass
Silver	mg/kg	EPA 6020B	< 0.25	< 500	Pass
Mercury	mg/kg	EPA 7471B	< 0.1	< 20	Pass
Beryllium	mg/kg	EPA 6020B	< 0.25	< 75	Pass
Cobalt	mg/kg	EPA 6020B	< 0.25	< 8 000	Pass
Copper	mg/kg	EPA 6020B	1.71	< 2 500	Pass
Zinc	mg/kg	EPA 6020B	6.04	< 5 000	Pass
Molybdenum	mg/kg	EPA 6020B	< 0.25	< 3 500	Pass
Nickel	mg/kg	EPA 6020B	502	< 2 000	Pass
Thallium	mg/kg	EPA 6020B	< 0.25	< 700	Pass
Vanadium	mg/kg	EPA 6020B	< 1.25	< 2 400	Pass

\*limits taken from the California Code Of Regulations - §66261.24

## Toxicological analysis of polycyclic aromatic hydrocarbons (PAHs) – ASTM F3496:

Elements	Units	Method	Results	Requirements	Pass/Fail
Benzo (a) pyrene	mg/Kg	ASTM F3496	< 0.2	-	-
Benzo (e) pyrene	mg/Kg	ASTM F3496	< 0.2	-	-
Benzo (a) anthracene	mg/Kg	ASTM F3496	< 0.2	-	-
Chrysene	mg/Kg	ASTM F3496	< 0.2	-	-
Benzo (j+b) fluoranthene	mg/Kg	ASTM F3496	< 0.2	-	-
Benzo (k) fluoranthene	mg/Kg	ASTM F3496	< 0.2	-	-
Dibenzo (a,h) anthracene	mg/Kg	ASTM F3496	< 0.2	-	-
HAP (sum)	mg/Kg	ASTM F3496	< 1.4	< 20	Pass

## REPORTED BY



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