



Project Information

Project Name	TTII PRO-MAX 37 TPE ASTM F3188 Heavy Metals Analysis		
Client Information	Target Technologies International Inc 8535 Eastlake Drive Burnaby BC V5A4T7		
Report Date	8/14/2023	Sample Receipt Date	7/28/2023
Job no.	98743/8926	Test Date(s)	8/3/2023 – 8/13/2023
Report Status	Final		
Prepared by	Megan Illsley Laboratory Director		
Checked by	Jeffrey Gentile Operations Director		

Notes:

1. This report has been prepared by Firefly Sports Testing with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
2. This report is confidential to the Client and Firefly Sports Testing accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
3. This analysis was subcontracted to ChemServe Environmental Analysts, CPSC Third Party Accredited Laboratory #1160.
4. 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."

Summary

Firefly Sports Testing was commissioned to perform infill sample analysis. Samples were sent to our laboratory and tested per the method(s) listed below.

Test Type	Test Method	Test Description
Extractable Hazardous Metals	ASTM F3188	Standard Specification for Extractable Hazardous Metals in Synthetic Turf Infill Materials

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General Information

ASTM F3188

This specification relates to the amount of certain metals that have the potential to be extracted from synthetic turf infill materials if ingested. The time, temperature, and pH of the extraction fluid approximate the conditions the infill material would experience in the stomach during the digestive process. The levels of extractable metals are compared to maximum levels allowed in children's toys. This specification applies to all materials (man-made or natural) that are intended for use as infill materials for synthetic turf sports surfaces.

The suggested concentration limits shown in the results tables below are based on screening levels per ASTM F3188-16 Migration of Certain Elements. These limits have been included for reference and are not project specific.

Results

TTII PRO-MAX 37 TPE				
Analyte	Analytical Method	Suggested Concentration Limit (mg/kg)	Sample Result (mg/kg)	PASS / FAIL
Antimony	ASTM F3188-16 / SW846-6010C	60	< 0.5	PASS
Arsenic	ASTM F3188-16 / SW846-6010C	25	< 0.5	PASS
Barium	ASTM F3188-16 / SW846-6010C	1000	< 0.5	PASS
Cadmium	ASTM F3188-16 / SW846-6010C	75	< 0.5	PASS
Chromium	ASTM F3188-16 / SW846-6010C	60	< 0.5	PASS
Lead	ASTM F3188-16 / SW846-6010C	90	< 0.5	PASS
Mercury	ASTM F3188-16 / SW 7471A	60	< 0.02	PASS
Selenium	ASTM F3188-16 / SW846-6010C	500	< 2.5	PASS

End of Report

