TÜV SÜD America, Inc., Product Safety Services
1866 New Energy Way, Auburn Hills, MI 48326
Phone: (616) 546-4600

Tramp Metals Test Results

ASTM F2075
Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment, Section 4.6 and Section 9

Customer/Participant: Report Date:
Main Office Address: Test Date:
All testing performed at location ID: Project No.:
Commercial Name of Product: Follow-up: Ref. Job:

4.6.1 Per 9.4 Tramp Metals

Level – 0in. – 15in.

Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4	
Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail

Level – 15in. – 30in.

Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4	
Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail

Level – 30in. – 45in.

Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4	
Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail

Level – 45in. – 60in.

Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4	
Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail

Pass Fail

Comments:

The results reported herein reflect the performance of the above described samples at the time of testing. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. This data sheet provides an accurate representation of the test results.
Decision rule for this test is simple acceptance. A measured value is accepted as passing if it falls within the specified tolerance limit.

Performed By: Reviewed By:

Title: Title:

Date: Date:

TÜV SÜD America Inc.
Product Safety Services
1866 New Energy Way
Auburn Hills, MI 48326
Phone: (616) 546-4600

Surfacing Material Report – ASTM F1292-22

Client:
Manufacturer:
Manufacturing Location:

Phone:
Commercial Name of product:
Date of Manufacture: **Unknown**
No. of samples submitted:

Project No.:
Report Date:
Test Date:
Initial Test:
Follow up Test: **Ref Job:**
Sample Receipt Date:
Ambient Air Temperature: __ ℃
Humidity: %

Test Equipment:

Alpha Automation, Triax, TUV System 5:
Alpha Automation, Triax, TUV System 7:
Accelerometer ID:
Accelerometer Calibration Date:

Environmental Chamber ID:
Calibration Due Date:
Environmental Chamber ID:
Calibration Due Date:

Loose Fill Material Sample Description:

Engineered Wood Fiber:
Loose Fill Wood:
Rubber:
Sand:
Gravel:
Other:

Un-compacted Depth: Inches

Compacted Depth: Inches

Unitary Sample Description:

Tiles
Poured in Place
Other

Total Thickness:
Top Layer:
Base Layer:

Comments:

The maximum critical fall height of the above described sample was determined to be: **Ft.**

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification.

Sample in compliance with ASTM F1292-22 at the temperature and rating specified? **Yes** **No**

Signature: Title: Date:

Reviewed by: Title: Date:

Client: Project No.:

Manufacturer: Test Date:

Drop	Critical Fall Height (Ft.)	Reference Temperature -4°C, (25°F)				Reference Temperature 23°C, (73°F)				Reference Temperature 49°C, (120°F)			
		G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1													
2													
3													
Average													
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													

Drop	One foot over (Ft.)	Reference Temperature -4°C, (25°F)				Reference Temperature 23°C, (73°F)				Reference Temperature 49°C, (120°F)			
		G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1													
2													
3													
Average													
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													

Drop	One foot under (Ft.)	Reference Temperature -4°C, (25°F)				Reference Temperature 23°C, (73°F)				Reference Temperature 49°C, (120°F)			
		G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1													
2													
3													
Average													
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													

TÜV America Inc.
1866 New Energy Way
Auburn Hills, MI 48326

Phone: (616) 546-4600

America

Hazardous Metals Test
ASTM F2075, Section 4.4.2 per 8.0

Manufacturer:
Main Office Address:
Manufacturing Location ID:
Commercial Name of Product:

PURCHASE ORDER: #

PROJECT NO.:

The following ISO 17025-accredited Laboratory performed testing:

Enviro Lab Services, Inc.
4150 Arrow St.
Oscoda, MI 48750
Enviro Lab Services, Inc., report attached (1 page).

Test Result: **Pass** **Fail**

Prepared By:

_____ _____
Date

_____
Title

Reviewed and Approved By:

_____ _____
Date

_____
Title

The results reported herein reflect the performance of the above described samples at the time of testing. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. This data sheet provides an accurate representation of the test results.

Enviro Lab Services

CERTIFICATE OF ANALYSIS

USEPA Lab ID: MI9885 Michigan EGLE Lab ID: 9115 **Report Date:** **7/30/2026**

Laboratory Report

Order ID:	**26070901**	**Client:**	**TUV SUD**
Sample ID:	**26070901-2**	**Client PO#:**	2900141255
Sample Matrix:	Engineered Wood Fiber	**Project Name:**	ASTM F2075 Soluble Heavy Metals Analysis
Customer Sample ID:	721022595-4	**Contact:**	David Splane
		Reporting To:	david.splane@tuvsud.com raymond.majszak@tuvsud.com tim.fouchia@tuvsud.com
Analysis Date:	7/10/2026	**Analyst:**	Travis Kirin

ASTM F2075 Soluble Heavy Metals Analysis

Analyte	CAS #	Method	Result (ppm)	Max Allowable Limit (ppm)	Reporting Limit (ppm)
Soluble Antimony	7440-36-0	ASTM F2075	ND	60	10
Soluble Arsenic	7440-38-2	ASTM F2075	ND	25	10
Soluble Barium	7440-39-3	ASTM F2075	ND	1000	10
Soluble Cadmium	7440-43-9	ASTM F2075	ND	75	10
Soluble Chromium	7440-47-3	ASTM F2075	ND	60	10
Soluble Lead	7439-92-1	ASTM F2075	ND	90	10
Soluble Mercury	7439-97-6	ASTM F2075	ND	60	10
Soluble Selenium	7782-49-2	ASTM F2075	ND	500	10

The Soluble Metals content of the above tested Sample ID is compliant with ASTM F2075

FINAL APPROVAL

APPROVED BY: Dean P Wiltse Dean Wiltse, President and CEO/ Interim RP

The results herein relate only to the items/batch tested, calibrated, or sampled in this report. "ND" indicates that the analyte was not detected nor present in the sample tested at levels at or below the limit of quantitation. Results only pertain to sample as received or those sampled by Enviro Lab

PJLA Testing
ISO/IEC 17025:2017
EPA 200.8 Heavy Metals
ACCREDITATION No. 108439

Enviro Lab Services, Inc.
4150 Arrow Street, Oscoda, MI 48750
Phone: (989) 387-2758
www.envirolabservice.com

Sieve Analysis Data Collection Form
ASTM F2075-20 per Section 4.4 and Section 7

TÜV SÜD America, Inc.
1866 New Energy Way
Auburn Hills, MI 48326
Ph: (616) 546-4600

Customer/Participant:
Main Office Address:
City, State, Zip:
Location ID:
Commercial Name of Product:

Test Date:
Project No.:
Ambient Air Temp.: °C
Relative Humidity: %
Follow-up: Ref. Job:

Test Equipment Used

TUV Asset No.:	Equipment Type	Manufacturer	Model
PLYP00234	Environmental Chamber	Russells	GD-16-105-AC
PLYP00163	Data Logger	Omega	OM-CP-RHTEMP101A
	Hygro-thermometer	Traceable	6418,18004-34
PLYP00055	Test Sieve	W.S. Tyler	No. 16 (1.19 mm)
PLYP00056	Test Sieve	W.S. Tyler	3/8" (9.53 mm)
PLYP00057	Test Sieve	W.S. Tyler	3/4" (19.05 mm)
PLYP00059	Sieve Shaker	W.S. Tyler	RX 812
PLYP00083	Balance	Denver Instruments	18453642

Data

Initial Sample and Container Weight
Tare weight of Container

Initial Sample Dry Weight (g)

Sample and Container Weight for 3/4in. Sieve
Tare weight of Container

Sample Remaining on 3/4in. Sieve (g)

Sample and Container Weight for 3/8in. Sieve
Tare weight of Container

Sample Remaining on 3/8in. Sieve (g)

Sample and Container Weight for #16 Sieve
Tare weight of Container

Material Remaining on #16 Sieve (g)

Sieve Size	Min / Max Requirements	% Passing
3/4" (19.05 mm)	99 - 100%	
3/8" (9.53 mm)	78 - 100%	
No. 16 (0.0469 in.)	0 -15%	

Sample in compliance with ASTM F2075-20 for Sieve Analysis Section 4.4 per 7.4: **Yes** **No**
Tare weights of containers verified prior to testing.
Note: Testing performed at TÜV SÜD America in Auburn Hills, MI.
Comments:

Performed By: _____ Title: _____ Date: _____

Reviewed By: _____ Title: _____ Date: _____

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