



IPEMA

INTERNATIONAL
PLAY EQUIPMENT
MANUFACTURERS
ASSOCIATION



IPEMA ASTM F1292-18 (SECTION 4.2) AND/OR ASTM F3351-19 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 21, 2021

Requested By: Tami S Hinkle

Project: Cowart Mulch Products

In the interest of public playground safety, IPEMA provides a third party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to ASTM F1292-18 Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment Standard, Section 4.2, Performance Criterion and/or ASTM F3351-19 Standard Test Method for Playground Surface Impact Testing in Laboratory at Specified Test Height.

The manufacturers listed below have received written validation from TÜV SÜD America that the products listed conform with the requirements of ASTM F1292-18, Section 4.2 and/or ASTM F3351-19.

The validation is made by testing at the specified fall height rating requested by the manufacturer, based upon its experience and knowledge of its products, instead of the "critical fall height" used in ASTM F1292-18. TÜV SÜD America validates that the Impact attenuating performance criterion specified by ASTM F1292-18 (Section 4.2) and/or ASTM F3351-19 has been met or exceeded.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	THK/HT MANUFACTURER
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Kid-Safe	Kid-Safe	Kid-Safe Playground Surfacing Material	12" / 12' Cowart Mulch Products, Inc.
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PZ23-12000010

06/07/2023



IPEMA ASTM F2075-15 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 21, 2021

Requested By: Tami S Hinkle

Project: Cowart Mulch Products

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to the ASTM F2075-15 Standard Specification For Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment.

The manufacturer listed below has received written validation from TÜV SÜD America that the product(s) listed conform with the requirements of ASTM F2075-15.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	THK/HT MANUFACTURER
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Kid-Safe	Kid-Safe	Kid-Safe Playground Surfacing Material	12" / 12' Cowart Mulch Products, Inc.
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TÜV SÜD America Inc. Product Safety Services

1755 Atlantic Blvd., Auburn Hills, MI 48326

Phone: (616) 546-4600

Tramp Metals Test Results - ASTM F2075

ASTM F2075-15

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: Cowart Mulch Products, Inc

Report Date: 6/25/2020

Main Office Address: 185 Peachtree Industrial Blvd. Sugar Hill, GA 30518

Test Date: 6/23/2020

All testing performed at location ID: Mill #1

Project No.: 72157425-1

Commercial Name of Product: KidSafe

4.6.1 Per 9.4 Tramp Metals

Level - 0" - 15"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Level - 15" - 30"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Level - 30" - 45"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
Pass ☒ Fail ☐

Level - 45" - 60"

Quadrant 1
Pass ☒ Fail ☐

Quadrant 2
Pass ☒ Fail ☐

Quadrant 3
Pass ☒ Fail ☐

Quadrant 4
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.

Performed By: Sabrina Naqui

Reviewed By: [Signature]

Title: Project Coordinator

Title: Regional Manager

Date: 6/25/2020

Date: 6/26/2020

PSS_F_09.33 Tramp Metals Test Results ASTM F2075 Rev. 4 Effective: 11/13/18

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06/07/2023



2810 Clark Avenue • St. Louis, MO 63103-2574 • (314) 531-8080 • FAX (314) 531-8085
Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

TUV SUD AMERICA, INC
1755 Atlantic Blvd.
Auburn Hills, MI 48326

Attention: Tim Fouchia

July 31, 2020
Lab No. 20C-1072
Invoice No. 273396
P.O. No. 2000041899
Page 1 of 1

REPORT OF ANALYSIS

MATERIAL: 72157425-4
SUBJECT: Soluble Heavy Metals Analysis
STANDARD: ASTM F2075-15, Section 4.5.2 per 8.0 Hazardous Metal Test Method
TEST METHOD: ASTM F2075-15
UNITS: Soluble Heavy Metals - Parts per Million (ppm)

RESULTS:

Substance	72157425-4	Maximum Allowable Limit	Method Detection Limit
Soluble Antimony	< 5	60	5
Soluble Arsenic	< 5	25	5
Soluble Barium	37	1000	5
Soluble Cadmium	< 5	75	5
Soluble Chromium	< 5	60	5
Soluble Lead	< 5	90	5
Soluble Mercury	< 5	60	5
Soluble Selenium	< 5	500	5

The soluble heavy metal content of the tested product is in compliance with the requirements of the above-indicated standard.

Identification of tested specimen provided by the client.


Jacob W. Long, Manager
Chemical Testing



CERTIFICATE # 0397.01
CERTIFICATE # 0397.02

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AN OFFICIAL COPY OF TEST REPORT WILL BE PROVIDED BY THIS LABORATORY ON REQUEST.
NOT OFFICIAL WITHOUT THE RAISED SEAL OF ST. LOUIS TESTING LABORATORIES, INC.
SEE REVERSE FOR CONDITIONS.

PZ23-12000010

06/07/2023



TÜV America Inc.
1755 Atlantic Blvd.
Auburn Hills, MI 48326

Phone: (616) 546-4600
E-mail: info@tuvam.com
www.TUVamerica.com



Hazardous Metals Test ASTM F2075, Section 4.5.2 per 8.0

Manufacturer: Cowart Mulch Products, Inc.

Main Office Address: 185 Peachtree Industrial Blvd., Sugar Hill, GA 30518

Manufacturing Location ID: Mill #1

Commercial Name of Product: KidSafe

PURCHASE ORDER: # 2000041899

PROJECT NO.: 72157425-4

The following ISO 17025-accredited Laboratory performed testing:

St. Louis Testing Laboratories, Incorporated
2810 Clark Avenue
St. Louis, MO 63103

St. Louis Testing Laboratory report attached (1 page).

Test Result:

Pass ☒

Fail ☐

Prepared By:

Ray Majczak

8/3/2020

Date

Project Coordinator

Title

Reviewed and Approved By:

David Splane

8/3/2020

Date

Regional Manager

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.

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Sieve Analysis Data Collection Form
ASTM F2075-15 per Section 4.4 and Section 7

TUV SUD America, Inc
1755 Atlantic Blvd.
Auburn Hills, MI 48326
Ph: (616) 546-4600

Customer/Participant: Cowart Mulch Products, Inc. Test Date: 7/17/2020
Main Office Address: 185 Peachtree Industrial Blvd. Project No.: 72157425-2
(City, State, Zip) Sugar Hill, GA 30518 Ambient Air Temp.: 23.4°C
Location ID: Mill #1 Relative Humidity: 43%
Commercial Name of Product: KidSafe

Test Equipment Used

<u>TUV Asset No.:</u>	<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model</u>
PLYP00100	Environmental Chamber	Russells	RB-8-1-1, (QE496)
PLYP00163	Data Logger	Omega	OM-CP-RHTEMP101A
PLYP00071	Hygro-thermometer	Extech Instruments	445702
PLYP00211	Hygro-thermometer	Extech Instruments	445702
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	<u>789.0</u>
Tare weight of Container	<u>208.4</u>
Initial Sample Dry Weight (g)	<u>580.6</u>
Sample and Container Weight for 3/4" Sieve	<u>179.9</u>
Tare weight of Container	<u>179.9</u>
Sample Remaining on 3/4" Sieve (g)	<u>0.0</u>
Sample and Container Weight for 3/8" Sieve	<u>217.4</u>
Tare weight of Container	<u>179.9</u>
Sample Remaining on 3/8" Sieve (g)	<u>37.5</u>
Sample and Container Weight for #16 Sieve	<u>675.7</u>
Tare weight of Container	<u>179.8</u>
Material Remaining on # 16 Sieve (g)	<u>495.9</u>

Sieve Size	Min / Max Requirements	% Passing
3/4" (19.05 mm)	99 - 100%	100.0
3/8" (9.53 mm)	75 - 100%	93.5
No. 16 (0.0469 in.)	0 -15%	8.1

Sample in compliance with ASTM F2075-15 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.

Performed By: Ray Majors

Title: Project Coordinator

Date: 7/17/2020

Reviewed By: [Signature]

Title: Regional Manager

Date: 8/3/2020

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.

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TUV SUD America Inc.

Product Safety Services

1755 Atlantic Blvd.

Auburn Hills, MI 48326

Phone: (616) 546-4600

IPEMA IMPACT ATTENUATION REPORT - ASTM F3351-19e1

Participant: Cowart Mulch Products, Inc	TUV Report No.: 72157425-3
Main Office Address: 185 Peachtree Industrial Blvd.	Report Date: 7/28/2020
Sugar Hill, GA 30518	Test Date: 7/27/2020 & 7/28/2020
Phone: (770) 932-6161	Selection: <input checked="" type="checkbox"/> Initial: <input type="checkbox"/>
Manufacturing Location ID: Mill #1	Follow up: <input type="checkbox"/> Ref Job: _____
Commercial Name of product: KidSafe	Sample Receipt Date: 7/16/2020
Date of Manufacture: Unknown	Ambient Air Temperature: 24.2 °C
No. of samples submitted: Approx. 8 Cu. Ft	Humidity: 34 %
Test Equipment:	
Alpha Automation, Triax, TUV System 5: <input type="checkbox"/>	Environmental Chamber ID: PLYP00101
Alpha Automation, Triax, TUV System 7: <input type="checkbox"/>	Calibration Due Date: 9/9/2020
Accelerometer ID: PLYP00096	Environmental Chamber ID: PLYP00069
Accelerometer Calibration Date: _____	Calibration Due Date: 9/9/2020

Loose Fill Material Sample Description:

Engineered Wood Fiber: <input checked="" type="checkbox"/>	Un-compacted Depth: 14 Inches
Loose Fill Wood: <input type="checkbox"/>	
Rubber Nuggets: <input type="checkbox"/>	
Rubber Buffings: <input type="checkbox"/>	
Sand: <input type="checkbox"/>	Compacted Depth: 12 Inches
Gravel: <input type="checkbox"/>	
Other: <input type="checkbox"/>	

Unitary Sample Description:

Tiles: <input type="checkbox"/>	Total Thickness: _____
Poured In Place: <input type="checkbox"/>	Top Layer: _____
Other: <input type="checkbox"/>	Base Layer: _____

Turf System Sample Description:

Turf: <input type="checkbox"/>	Turf Pile Height: _____ inches
Pad: <input type="checkbox"/>	Pad Thickness: _____ inches
Aggregate: <input type="checkbox"/>	Aggregate: _____ inches
Infill: <input type="checkbox"/>	Infill Amount: _____ Lbs./Sq. Ft.
	Infill Type: _____

Comments:

- 1.) This test method utilizes the g-max and HIC performance criteria of ASTM F1292, Section 4.2.
- 2.) The handheld and missile from Triax System 8 were used for impacts.

The above described sample was tested at: 12 Ft.

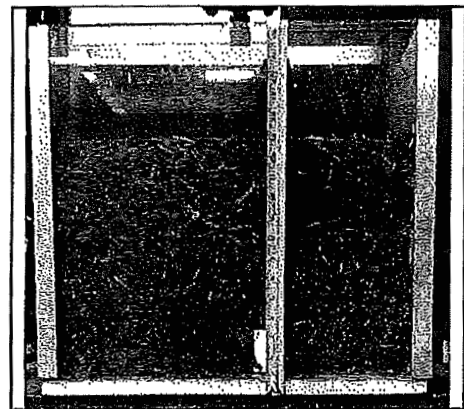
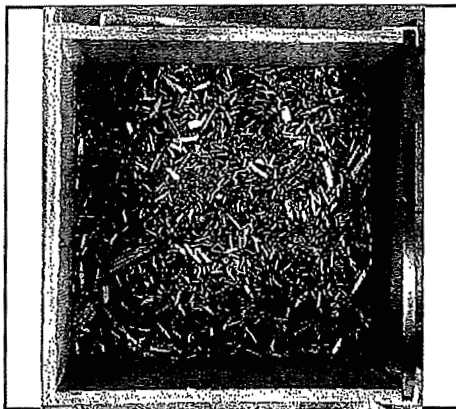
The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The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

Sample in compliance with ASTM F3351-19e1 at the temperature and rating specified? Yes ☒ No ☐

Signature: <u>Sabrina Nazki</u>	Title: Project Coordinator	Date: 7/28/2020
Reviewed by: <u>[Signature]</u>	Title: Regional Manager	Date: 8/3/2020

Client: Cowart Mulch Products, IncTUV Report No.: 72157425-3Manufacturer: Mill #1Test Date: 7/27/2020 & 7/28/2020

Drop	Specified Impact Height (Ft.)	Reference Temperature -4°C, (25°F)				Reference Temperature 23°C, (72°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	12	57	201	27.9	12.10	38	112	27.9	12.10	65	278	28.1	12.28	
2	12	85	397	28.2	12.36	59	244	28.2	12.36	81	384	28.2	12.36	
3	12	92	454	28.2	12.36	71	297	28.2	12.36	99	503	28.2	12.36	
Average		88.5	425.5			65.0	270.5			90.0	443.5			
Measured Surface Temperature		-3 °C	Max. Change from reference + 5°C, (5°F)				23°C	Max. Change from reference ± 3°C, (5°F)				47°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:		Dry				Dry				Dry				



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Playground Surfacing Material

According to the Consumer Product Safety Commission (CPSC), sixty percent of all playground injuries sustained, where involved with equipment, occur as a result of a fall to the surface. At Cowart we recognize the value of play, while understanding the importance of safety in our playgrounds. Our playground surfacing material, KID-SAFE™, is a finely ground hardwood mulch manufactured specifically for use in all outdoor playgrounds.

Product Information

KID-SAFE™ is an all-natural by-product of the wood products industry and is free from chemicals and other contaminants that may be harmful to children.

ASTM Certification Information

KID-SAFE™ is IPEMA certified. "The use of this surfacing conforms to the requirements of ASTM F1292, Standard Specification for Impact Attenuation Under and Around Playground Equipment, and for engineered wood fiber, also to ASTM F2075, Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment, Section 4.6, for testing the presence of Tramp Metal. Check the IPEMA website (www.ipema.org) to confirm product certification, its thickness and critical height." KID-SAFE™ is also certified and meets the requirements of ASTM F1951, Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.

Testing of KID-SAFE™, at a compacted 12" depth, was completed by Detroit Testing Laboratory at heights of 11, 12 and 13 foot impact heights.

***Contact Cowart Mulch Products, Inc. for the installation and maintenance instructions. The product depth, when installed, must follow the instructions outlined in ASTM 1292 and meet the guidelines for critical height as determined by the CPSC.*



185 Peachtree Industrial Blvd.
Sugar Hill, GA 30518

Phone: 770-932-6161
Order: 770-932-0260
Fax: 770-932-5150

www.cowartmulch.com



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Playground Surfacing Material Installation and Maintenance

According to the Consumer Product Safety Commission (CPSC), sixty percent of all playground injuries sustained, where involved with equipment, occur as a result of a fall to the surface. At Cowart we recognize the value of play, while understanding the importance of safety in our playgrounds. Our playground surfacing material, **KID-SAFE™**, is a finely ground hardwood mulch manufactured specifically for use in all outdoor playgrounds.

Product Information

KID-SAFE™ is an all-natural by-product of the wood products industry – not produced from pallet material -- and is free from chemicals and other contaminants that may be harmful to children.

KID-SAFE™ meets the Head Impact Criteria (HIC) and G-Max requirements at the fall height indicated per ASTM F1292, ASTM F2075 and the CPSC for use of wood products for protective surfacing. **KID-SAFE™** also meets the Americans with Disabilities Act (ADA) requirements for wheelchair accessibility on playground surfaces per ASTM F1951. Testing of **KID-SAFE™**, at a compacted 12" depth, was completed by TUV SUD America at heights of 11, 12 and 13 foot impact heights. The sample was tested at temperatures of -6° C, 23° C and 49° C.

Installation and Maintenance

Before installing any playground surfacing material the area should be inspected and cleared of all material that could be considered hazardous to children at play – including rocks, sticks, branches, trash and any other large debris.

Drainage issues on the play area should also be addressed prior to installation of **KID-SAFE™**. It is important that standing water does not remain in the play area for any extended length of time.

In order to have acceptable shock absorbing properties **KID-SAFE™** must be installed and maintained at the required depth as per standard for playground surfacing systems, ASTM F1292, ASTM F2075 and ASTM F1951. The recommended installed depth of **KID-SAFE™** is 12", however an additional 2-3" application will allow for compression and settling of playground material.

It is also important to note that the CPSC and ASTM-approved fall perimeters for playground use zones are as follows:

- For stationary equipment, surfacing material must be applied 6 feet under and around the equipment. This is considered the "use zone."

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- For swings, the use zone is a distance that is twice the height from the ground to the swing hanger, both in front of and behind the swing.
- For slides, the fall height for slides is the distance between the transition platform and the protective surfacing beneath it. The use zone in front of the access and to the sides of the slide should extend a min. of 6 ft. from the perimeter of the equipment. For slides less than or equal to 6 ft., the use zone in front of the exit should be at least 6 ft. For slides greater than 6 ft. high, the use zone in front of the exit should be at least as long as the slide is high up to a max. of 8 ft.

Proper installation includes adhering to the standards of both the recommended depth of **KID-SAFE™** and appropriate coverage of use zones in playground areas. **KID-SAFE™** should never be installed on hard surfaces such as asphalt, cement, dirt or grass where it is to be used as a playground for children.

In order to maintain the recommended depths of **KID-SAFE™** play areas should be raked regularly and topped off with additional material as needed to meet the requirements for safe play.



Cowart is committed to making our playgrounds **KID-SAFE™**!

** To download a copy of the CPSC Handbook for Public Playground Safety, visit their web site at www.cpsc.gov.



185 Peachtree Industrial Blvd.

Sugar Hill, GA 30518

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