



TÜV SÜD America Inc.
Product Safety Services
1755 Atlantic Blvd.
Auburn Hills, MI 48326
Phone: (616) 546-4600

SURFACING MATERIAL REPORT – ASTM F1292-

Client: **Hammond Farms, Inc.**
Manufacturer: **Hammond Farms, Inc.**
Manufacturing Location: **Dimondale, MI**
Phone: **(517) 646-8698**
Commercial Name of product: **Playground Mulch**
Date of Manufacture: **Unknown**
No. of samples submitted: **Approx. 12. Cubic. Ft.**

Project No.: **72168104-3**
Report Date: **4/5/2021**
Test Date: **4/1/2021 and 4/5/2021**
Initial Test: ☒
Follow up Test: ☐ **Ref Job:**
Sample Receipt Date: **3/22/2021**
Ambient Air Temperature: **(22.7°C)**
Humidity: **21.0%**

Test Equipment:

Alpha Automation, Triax, TUV System 5: ☒
Alpha Automation, Triax, TUV System 7: ☐
Accelerometer ID: **PLYP00144**
Accelerometer Calibration Date: **6/9/2020**

Environmental Chamber ID: **AE029**
Calibration Due Date: **1/9/1900**
Environmental Chamber ID: **PLYP00096**
Calibration Due Date: **9/8/2021**

Loose Fill Material Sample Description:

Engineered Wood Fiber: ☒ Un-compacted Depth: **15** Inches
Loose Fill Wood ☐
Rubber: ☐
Sand: ☐ Compacted Depth: **12** Inches
Gravel: ☐
Other: ☐

Unitary Sample Description:

Tiles ☐
Poured in Place ☐
Other ☐

Total Thickness: _____
Top Layer: _____
Base Layer: _____

Comments:

The maximum critical fall height of the above described **19** **Ft.**
sample was determined to be:

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- at the temperature and rating specified? Yes ☒ No ☐

Signature: Sabrina Nagvi

Title: Project Coordinator

Date: 4/5/2021

Reviewed by: [Signature]

Title: Regional Manager

Date: 4/16/2021

Client: **Hammond Farms, Inc.**Project No.: **72168104-3**Manufacturer: **Hammond Farms, Inc.**Test Date: **4/1/2021 and 4/5/2021**

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	19	103	610	35.2	19.262	91	505	35.2	19.262	83	487	35.3	19.371
2	19	123	830	35.3	19.371	99	566	35.3	19.371	99	646	35.3	19.371
3	19	141	1053	35.4	19.481	104	617	35.3	19.371	123	831	35.3	19.371
Average		132	941.5			101.5	591.5			111	738.5		
Measured Surface Temperature		(-3°C)	Max. Change from reference + 5°C, (5°F)			23°C	Max. Change from reference ± 3°C, (5°F)			(49°C)	Max. Change from reference -3°C, (-5°F)		
Sample Condition:		DRY				DRY				DRY			

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	20	117	791	36.2	20.372	109	648	35.9	20.036	95	553	36.2	20.372
2	20	140	1085	36.3	20.485	136	936	36.3	20.485	136	1046	36.3	20.485
3	20	156	1264	36.3	20.485	134	936	36.3	20.485	136	996	36.4	20.598
Average		148	1174.5			135	936			136	1021		
Measured Surface Temperature		(-3°C)	Max. Change from reference + 5°C, (5°F)			(23°C)	Max. Change from reference ± 3°C, (5°F)			(49°C)	Max. Change from reference -3°C, (-5°F)		
Sample Condition:		DRY				DRY				DRY			

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	18	98	390	34.0	17.971	64	331	34.3	18.289	100	571	34.4	18.396
2	18	133	887	34.4	18.396	89	575	34.3	18.289	112	679	34.4	18.396
3	18	117	748	34.3	18.289	106	568	34.4	18.396	109	721	34.4	18.396
Average		125	817.5			97.5	571.5			110.5	700		
Measured Surface Temperature		(-3°C)	Max. Change from reference + 5°C, (5°F)			(23°C)	Max. Change from reference ± 3°C, (5°F)			(49°C)	Max. Change from reference -3°C, (-5°F)		
Sample Condition:		DRY				DRY				DRY			



America

