



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

Surfacing Material Report - Least Favorable Impact Location – ASTM F1292-13

Client: <u>Rubbercycle, LLC</u>	Project No.: <u>72123071</u>
Manufacturer: <u>Rubbercycle, LLC</u>	Report Date: <u>1/20/2017</u>
Manufacturing Location: <u>Lakewood, NJ</u>	Test Date: <u>1/20/2017</u>
Phone: <u>(732) 363-0600</u>	Initial Test <input checked="" type="checkbox"/>
Commercial Name of Product: <u>AveerTile2</u>	Follow up Test <input type="checkbox"/> Ref Job:
Date of Manufacture: <u>Unknown</u>	Sample Receipt Date: <u>1/17/2017</u>
No. of samples submitted: <u>6 - 24in. X 24in. Tiles</u>	Ambient Air Temperature: <u>20.8°C</u>
	Humidity: <u>22.0%</u>

Test Equipment:

Alpha Automation, Triax, TUV System 5: <input checked="" type="checkbox"/>	Environmental Chamber No.: PLYP00069
Alpha Automation, Triax, TUV System 4: <input type="checkbox"/>	Calibration Due Date: 9/26/2017
Accelerometer ID: PLYP00144	Environmental Chamber No.: PLYP00101
Accelerometer Calibration Date: 2/16/2016	Calibration Due Date: 9/26/2017

Unitary Sample Layer Description:

Total Thickness: 3.00in.
 Top Layer: N/A
 Base Layer: N/A

Determine Least Favorable Impact Location: The highest percentage (%), of maximum allowable value, based on g-max or HIC, as tested at the locations indicated on Pages 2 and 3.

	<u>Impact Location:</u>	<u>Reference Temperature:</u>
Least Favorable Impact Location was determined at:	<u>Corner</u>	<u>23°C</u>

Comments:

- 1.) Samples tested in laboratory environment, overlying poured concrete floor.
- 2.) Calculate the average g-max and HIC scores by averaging results from the second and third impacts.
- 3.) After Least Favorable Impact Location is determined at 23°C, remaining testing will be completed at temperatures 49°C and -6°C at that location.

The above described sample was tested at : 8 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 F1292-13 at the temperature and rating specified? Yes No

Signature: Timothy Fouclia Title: Project Coordinator Date: 1/20/2017

Reviewed by: [Signature] Title: Regional Manager Date: 1/20/2017

Client: **Rubberecycle, LLC**

Project No.: **72123071**

Manufacturer: **Rubberecycle, LLC**

Test Date: **1/20/2017**

Impact Location: Corner

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°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	8	121	713	22.7	8.011	107	612	22.7	8.011	102	503	22.8	8.081	
2	8	127	729	22.7	8.011	129	695	22.7	8.011	117	590	22.7	8.011	
3	8	117	670	22.7	8.011	128	675	22.7	8.011	113	510	22.7	8.011	
Average		122	699.5			128.5	685			115	550			
Measured Surface Temperature		(-6°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				
Percentage (%) of maximum allowable values (g-max and HIC):						g-max:	64.3%	HIC:	68.5%					

Impact Location: Center

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°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	8				0.000	84	484	22.7	8.011				0.000	
2	8				0.000	83	451	22.7	8.011				0.000	
3	8				0.000	89	479	22.7	8.011				0.000	
Average		0	0			86	465			0	0			
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)				23°C	Max. Change from reference ± 3°C, (±5°F)				°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:		DRY				DRY				DRY				
Percentage (%) of maximum allowable values (g-max and HIC):						g-max:	43.0%	HIC:	46.5%					

Impact Location: Seam

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°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	8				0.000	88	443	22.7	8.011				0.000	
2	8				0.000	101	497	22.4	7.800				0.000	
3	8				0.000	92	425	22.7	8.011				0.000	
Average		0	0			96.5	461			0	0			
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)				23°C	Max. Change from reference ± 3°C, (±5°F)				°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:		DRY				DRY				DRY				
Percentage (%) of maximum allowable values (g-max and HIC):						g-max:	48.3%	HIC:	46.1%					



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Project No.: **72123071**

Impact Location: Seam at Interlock

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°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	8				0.000	118	738	22.7	8.011				0.000	
2	8				0.000	116	642	22.7	8.011				0.000	
3	8				0.000	119	663	22.7	8.011				0.000	
Average		0	0			117.5	652.5			0	0			
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)				23°C	Max. Change from reference ± 3°C, (±5°F)				°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:		DRY				DRY				DRY				
Percentage (%) of maximum allowable values (g-max and HIC):						g-max:	58.8%	HIC:	65.3%					

Impact Location: Intersection of 4 Tiles

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°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	8				0.000	103	468	22.7	8.011				0.000	
2	8				0.000	108	459	22.7	8.011				0.000	
3	8				0.000	115	508	22.7	8.011				0.000	
Average		0	0			111.5	483.5			0	0			
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)				23°C	Max. Change from reference ± 3°C, (±5°F)				°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:		DRY				DRY				DRY				
Percentage (%) of maximum allowable values (g-max and HIC):						g-max:	55.8%	HIC:	48.4%					

Impact Location:

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°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					0.000				0.000				0.000	
2					0.000				0.000				0.000	
3					0.000				0.000				0.000	
Average		0	0			0	0			0	0			
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)				23°C	Max. Change from reference ± 3°C, (±5°F)				°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:		DRY				DRY				DRY				
Percentage (%) of maximum allowable values (g-max and HIC):						g-max:	0.0%	HIC:	0.0%					



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