



TÜV SÜD America Inc.
Product Safety Services
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 Plymouth, MI 48170
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IPEMA Impact Attenuation Report – ASTM F1292-13

Participant: Rubbercycle, LLC
 Main Office Address: 1985 Rutgers University Blvd.
Lakewood, NJ 08701
 Phone: (732) 363-0600
 Manufacturing Location ID: Lakewood, NJ
 Commercial Name of product: RubberBond PIP
 Date of Manufacture: Unknown
 No. of samples submitted: 6 - 30in. X 30in. Systems

TUV Report No.: 72104542-4
 Report Date: 3/31/2015
 Test Date: 3/30/15 and 3/31/15
 Selection: Initial:
 Follow up **Ref Job:**
 Sample Receipt Date: 3/25/2015
 Ambient Air Temperature: 22.1°C
 Humidity: 21.0%

Test Equipment:

Triax System 4:	<input checked="" type="checkbox"/>	Environmental Chamber No.:	<u>PLYP00101</u>
Triax System 1:	<input type="checkbox"/>	Calibration Due Date:	<u>6/17/15</u>
Accelerometer ID:	<u>PLYP00089</u>	Environmental Chamber No.:	<u>PLYP00069</u>
Accelerometer Calibration Due Date:	<u>8/1/2015</u>	Calibration Due Date:	<u>8/11/15</u>

Loose fill Material Sample Description:

Engineered Wood Fiber:	<input type="checkbox"/>	Un-compacted Depth:	<u>4.5</u> Inches
Loose Fill Wood:	<input type="checkbox"/>		
Rubber:	<input checked="" type="checkbox"/>	Compacted Depth:	<u>4.5</u> Inches
Sand:	<input type="checkbox"/>		
Gravel:	<input type="checkbox"/>		
Other:	<input type="checkbox"/>		

Unitary Sample Description:

Tiles	<input type="checkbox"/>	Total Thickness:	<u>1.5in.</u>
Poured in Place	<input checked="" type="checkbox"/>	Top Layer:	<u>N/A</u>
Other	<input type="checkbox"/>	Base Layer:	<u>N/A</u>

Comments:

- 1.) System: 1.5in. top coat, over 4.5in. Playsafer loose fill rubber base. Total system thickness: 6.0in.
- 2.) Samples received assembled by Rubbercycle, LLC, in wood boxes with exterior dimensions of 31in. x 31in.

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 F1292-13 at the temperature and rating specified? Yes No

Signature: Timothy Franklin Title: Project Coordinator Date: 3/31/15

Reviewed by: [Signature] Title: Regional mgr. Date: 3/31/2015

Client: Rubberecycle, LLC

TUV Report No.

72104542-4Manufacturer: Rubberecycle, LLC

Test Date:

3/30/15 and 3/31/15

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	12	68	382	27.8	12.014	68	432	27.9	12.101	67	384	27.8	12.014
2	12	72	388	27.8	12.014	67	404	27.9	12.101	70	380	27.8	12.014
3	12	72	376	27.8	12.014	67	386	27.9	12.101	69	354	27.8	12.014
Average		72	382			67	395			69.5	367		
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			

Drop	One foot over (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)			°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 -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)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													



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