



TÜV SÜD America Inc.
Product Safety Services
 47523 Clipper Drive
 Plymouth, MI 48170
 Phone: 734.455.4841

IPEMA Impact Attenuation Report – ASTM F1292-13

Participant: **Rubberecycle, 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.: **72104542-3**
 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: **22.0°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 Rubberecycle, LLC, in wood boxes with exterior dimensions of 31in. x 31in.

The above described sample was tested at : 10 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: 3/31/15

Client: Rubberecycle, LLC

TUV Report No.

72104542-3

Manufacturer: 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	10	64	292	25.4	10.030	56	281	25.4	10.030	60	277	25.4	10.030
2	10	71	343	25.5	10.109	58	280	25.4	10.030	61	270	25.4	10.030
3	10	70	332	25.5	10.109	59	274	25.4	10.030	61	271	25.5	10.109
Average		70.5	337.5			58.5	277			61	270.5		
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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