



**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.: 72104542-1  
 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 Rubberecycle, LLC, in wood boxes with exterior dimensions of 31in. x 31in.

**The above described sample was tested at : 6 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 Fambri*      Title: Project Coordinator      Date: 3/31/15

Reviewed by: *[Signature]*      Title: Regional mgr.      Date: 3/31/15

Client: Rubberecycle, LLC

TUV Report No.

72104542-1

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	6	48	168	19.7	6.033	34	108	19.8	6.095	43	128	19.7	6.033		
2	6	49	160	19.7	6.033	37	109	19.8	6.095	43	127	19.7	6.033		
3	6	49	160	19.7	6.033	38	105	19.8	6.095	44	125	19.7	6.033		
Average		49	160			37.5	107			43.5	126				
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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