



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.: 72104542-2
 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 : 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.

Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No

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

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

Client: Rubberecycle, LLC

TUV Report No.

72104542-2

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	8	61	293	22.9	8.152	49	181	22.8	8.081	54	218	22.8	8.081	
2	8	61	278	22.9	8.152	50	180	22.8	8.081	55	216	22.8	8.081	
3	8	63	275	22.9	8.152	52	186	22.8	8.081	54	204	22.8	8.081	
Average		62	276.5			51	183			54.5	210			
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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