

**TÜV SÜD 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: Rubberecyc Manufacturer: Rubberecyc Manufacturing Location: Lakewood, Phone: (732) 363-06 Commercial Name of Product: Genesis Tu Date of Manufacture: Unknown No. of samples submitted: 3 - 30in. X 3	<u>ile, LLC</u> <u>NJ</u> 600 <u>ff</u> 0in. Systems	F Sample Ambient Air	Project No. Report Dates Test Dates Initial Test Follow up Test Receipt Dates Temperatures Humidity:	2 72120577-3 9/28/2016 2 9/28/2016 1 √ 1 √ 1 √ 2 8 C Job: 2 9/23/2016 2 22.0°C 37.0%				
	Test	Equipment:						
Alpha Automation, Tria	ax, TUV System 5:	Environmental	Chamber No.:	PLYP00069	)			
Alpha Automation, Tria	ax, TUV System 4:	Calibrat	ion Due Date:	9/26/2017				
Accelerom	eter ID: PLYP00	144 Environmental	Environmental Chamber No.:					
Accelerometer Calibratio	n Date: 2/16/20	16 Calibrat	ion Due Date:	9/26/2017				
	Unitary Samp	le Layer Description:						
	Total Thickness, A	25in						
	Top Laver: 1	25in						
	Base Laver: 3	00in						
Determine Least Favorable Impact Location:	The highest percen <u>the location</u> npact Location:	tage (%), of maximum allowable v s indicated on Page 2. Reference Temperature	value, based	on g-max or HIG	C, as tested at			
Least Favorable Impact Location was determined at:	Corner	23°C						
	Conter							
<b>Comments:</b> 1.) Samples tested in laboratory environment, ov 2.) Calculate the average g-max and HIC scores 3.) After Least Favorable Impact Location is dete 4.) System: 1.25in. pile Genesis Turf, overlaying 15.6lbs.). Total system depth/thickness of 4.25in	erlying poured concr by averaging results rmined at 23°C, rema 3.00in. rubber mat fil	ete floor. from the second and third impacts. aining testing will be completed at to led with loose fill rubber mulch. Tur	emperatures 4 infilled with 2	l9°C and -6°C at 2.5lbs. per square	that location.			
The above described s	sample was teste	<u>ed at : 12 Ft.</u>						
The results reported herein reflect the performance of o the described samples. Samples of surfacing mater an accurate representation of the test results. Complia	the above described satisfies that do not closely ance with this Standard	amples at the time of testing and at the match the described samples will perfo does not constitute product certification	temperature(s) rm differently. 7 n.	reported. The res The following data	ults are specific sheet provides			
Sample in compliance with ASTM F1292-13 at the	e temperature and rat	ing specified? Yes	V	Νο				
Signature: Jimothy Form	liia Title: <u>P</u>	roject Coordinator	Date:	9/28/2016				
Reviewed by:		edional Manader	Date:	9/28/2016				

Client: Rubberecycle, LLC

Manufacturer: Rubberecycle, LLC

Project No.:

<u>72120577-3</u>

Test Date:

<u>9/28/2016</u>

				Im	pact Loc	ation: C	enter of	Sample	Į				
	Reference Temperature -6°C, (21.2°F)			21.2°F)	Refer	rence Temper	ature 23°C, (7	3.4°F)	Reference Temperature 49°C, (120.2°F)				
Drop	Specified Impact Height (Ft.)	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	1			0.000	76	430	27.8	12.014				0.000
2	12	i i			0.000	89	441	27.8	12.014				0.000
3	12	i!	['		0.000	88	378	27.8	12.014				0.000
Aver	rage	0	0			88.5	409.5			0	0		
Measured Surface Temperature (-6°C) Max. Change from reference + 5°C, (5°F)				23°C	Max. Cha	nge from refer (±5°F)	:ence $\pm 3^{\circ}$ C,	49°C Max. Change from reference -3°C, (-5°F)					
Sample C	ondition:						D	RY					
Perce	ntage (%) of ma	ximum allow	able values (g	g-max and HJ	(C):	g-max:	44.3%	HIC:	41.0%				
				Im	pact Loc	ation: Co	orner of	Sample	)				
	Securified	Refe	rence Temper	ature -6°C, (2	21.2°F)	Refer	ence Temper	ature 23°C, (7	3.4°F)	Refere	ence Tempera	ature 49°C, (12	20.2°F)
Drop	Impact Height (Ft.)	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	85	519	27.8	12.014	89	464	27.8	12.014	123	492	27.8	12.014
2	12	73	369	27.7	11.928	149	610	27.8	12.014	154	656	27.8	12.014
3	12	76	359	27.7	11.928	156	622	27.8	12.014	159	711	27.7	11.928
Aver	rage	74.5	364			152.5	616			156.5	683.5		
Measured Surface Temperature (-6°C) Max. Change from reference + 5°C, $(5^{\circ}F)$				23°C	, Max. Change from reference $\pm 3^{\circ}$ C, $(\pm 5^{\circ}$ F)			49°C Max. Change from reference -3°C, (-5°F)					
Sample C	ondition:		D	<b>RY</b>			DRY				D	RY	
Perce	ntage (%) of ma	ximum allow:	able values (g	g-max and HJ	(C):	g-max:	76.3%	HIC:	61.6%				
				In	npac <u>t Loc</u>	atio <u>n: S</u>	eam of	Sam <u>ple</u>					
	Granified	Refe	rence Temper	ature -6°C, (2	21.2°F)	Refer	ence Temper	ature 23°C, (7	3.4°F)	Reference Temperature 49°C, (120.2°F)			
Drop	Impact Height (Ft.)	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	í'			0.000	87	534	27.8	12.014				0.000
2	12	i			0.000	90	455	27.8	12.014				0.000
3	12	í <u> </u>	[ <u> </u>		0.000	87	422	27.8	12.014				0.000
Aver	rage	0	0			88.5	438.5			0	0		
Measured Surfa	leasured Surface Temperature °C Max. Change from reference + 5°C, (5°F)			rence $+5^{\circ}$ C,	23°C	Max. Change from reference $\pm 3^{\circ}$ C, $(\pm 5^{\circ}$ F)			°C Max. Change from reference -3°C, (-5°F)				
Sample C	ondition:						D	RY					
Perce	ntage (%) of ma	ximum allow	able values (s	g-max and HJ	IC):	g-max:	44.3%	HIC:	43.9%				
						TUN SUD Americ							