

PINNACLE **Rubber Mulch**



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TUV SUD America Inc.

Product Safety Services

47253 Clipper Drive

Plymouth, MI 48170

Phone: 734.455.4841

IPEMA Surfacing Material Report – ASTM F1292-09

Client: LTR Products, LLC
Manufacturer: LTR Products, LLC
Manufacturing Location: Baytown, TX

TUV Report No.: QI1004518-1

Report Date: 6/3/2010

Test Date: 6/3/2010

Initial Test

Follow up Test Ref Job:

Sample Receipt Date: 5/10/2010

Selection Date: N/A

Ambient Air Temperature: 22.8°C

Humidity: 43%

Phone: (321) 636-3532

Commercial Name of product: Rubber Mulch Mini-Nuggets

Sample Selection: Yes No: X

Date of Manufacture: Unknown

No. of samples submitted: Approx. 8 Cu. Ft.

Test Equipment:

Triax 2000 Accelerometer Calibration Due Date: Nov-10

Environmental Chamber No.: N/A

Temperature Probe Calibration Due Date: Jan-11

Calibration Due Date: N/A

Environmental Chamber No.: N/A

Calibration Due Date: N/A

Loose fill Material Sample Description:

- Loose Fill Wood:
- Engineered Wood Fiber:
- Rubber:
- Sand:
- Gravel:
- Other:

Un-compacted Depth: 7 Inches

Compacted Depth: 6 Inches

Unitary Sample Description:

- Tiles
- Poured in Place
- Other

Thickness:

Thickness:

Thickness:

Comments:

The above described sample was tested at : 16 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 F1292-09 at the temperature and rating specified? Yes No

Signature: Timothy Foubria

Date: 6/3/10

Reviewed by: [Signature]

Date: 6/3/2010

Client: **LTR Products, LLC**

TUV Report No. **QI1004518-1**

Manufacturer: **LTR Products, LLC**

Test Date: **6/3/2010**

Drop	Specified Drop 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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	16				102	681	32.2			
2	16				108	696	32.2			
3	16				107	669	32.2			
Average		0	0		107.5	682.5		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		24°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:		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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:										





DETROIT TESTING LABORATORY, INC.

27485 George Merrelli Drive, Warren, MI 48092 • (586)754-9000 • FAX (586)754-9045 • www.dtl-inc.com

IPEMA SURFACING MATERIAL REPORT – ASTM F1292-04

Client: LTR Products, LLC (Formally RMD Americas)
Manufacturer: LTR Products, LLC (Formally RMD Americas)
Manufacturing Location: Rockledge, FL

DTL Report No.: 9038027-2, Rev 1
Report Date: 11/23/2009
Test Date: 4/20/09
Initial Test
Follow up Test **Ref Job:**
Sample Receipt Date: 3/27/09 & 4/1/09
Selection Date: 9-Mar-09
Ambient Air Temperature: 24.7°C
Humidity: 20%

Phone: 321-636-3532
Commercial Name of product: 3/8" Rubber Nugget Mulch
Sample Selection: **Yes X No**
Date of Manufacture: Unknown
No. of samples submitted: 5 cu. Ft.

Test Equipment:

Triax 2000 Accelerometer Calibration Due Date: **May-09**
Temperature Probe Calibration Due Date: **Feb-09**

Environmental Chamber No.: **106**
Calibration Due Date: **Jan-10**
Environmental Chamber No.: **133**
Calibration Due Date: **May-09**

Loose fill Material Sample Description:

Loose Fill Wood: Un-compacted Depth: 7 Inches
Engineered Wood Fiber:
Rubber:
Sand: Compacted Depth: 6 Inches
Gravel:
Other:

Unitary Sample Description:

Tiles Thickness:
Poured in Place Thickness:
Other Thickness:

Comments:

Revision one of this report was generated to change company name and manufacturer to LTR Products, LLC

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 F1292-04 at the temperature and rating specified? Yes No

Signature: 

Date: 11/23/2009

Reviewed by: 

Date: 11/23/2009

Drop	Specified Drop 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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	12				85	449	27.9			
2	12				80	392	27.8			
3	12				80	389	27.9			
Average		0	0		80	390.5		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		24°C	Max. Change from reference + 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference + 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:										





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IPEMA SURFACING MATERIAL REPORT – ASTM F1292-04

Client: LTR Products, LLC (Formally RMD Americas)
Manufacturer: LTR Products, LLC (Formally RMD Americas)
Manufacturing Location: Rockledge, FL

DTL Report No.: 9038027-1, Rev 1

Report Date: 11/23/2009

Test Date: 4/16/09 & 4/20/09

Initial Test

Follow up Test Ref Job:

Sample Receipt Date: 3/27/09 & 4/1/09

Selection Date: 9-Mar-09

Ambient Air Temperature: 24.7°C

Humidity: 20%

Phone: 321-636-3532

Commercial Name of product: 3/4" Rubber Nugget Mulch

Sample Selection: **Yes** **No**

Date of Manufacture: Unknown

No. of samples submitted: 12 cu. Ft.

Test Equipment:

Triax 2000 Accelerometer Calibration Due Date: **May-09**

Environmental Chamber No.: **106**

Temperature Probe Calibration Due Date: **Feb-09**

Calibration Due Date: **Jan-10**

Environmental Chamber No.: **133**

Calibration Due Date: **May-09**

Loose fill Material Sample Description:

- Loose Fill Wood:
- Engineered Wood Fiber:
- Rubber:
- Sand:
- Gravel:
- Other:

Un-compacted Depth: 7 Inches

Compacted Depth: 6 Inches

Unitary Sample Description:

- Tiles Thickness:
- Poured in Place Thickness:
- Other Thickness:

Comments:

Revision one of this report was generated to change the name of company and manufacturer to LTR Products, LLC.

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 F1292-04 at the temperature and rating specified?

Yes

No

Signature: 

Date: 11/23/2009

Reviewed by: 

Date: 11/23/2009

Client: LTR Products, LLC (Formally RMD Americas)

DTL Report No. 9038027-1, Rev 1

Manufacturer: LTr Products, LLC (formally RMD Americas)

Test Date: 4/16/09 & 4/20/09

Drop	Specified Drop 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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	12	88	500	28.0	86	467	28.0	84	459	27.9
2	12	75	347	27.9	77	376	27.9	76	383	28.0
3	12	81	400	28.0	82	426	28.0	81	418	28.0
Average		78	373.5		79.5	401		78.5	400.5	
Measured Surface Temperature		-6°C	Max. Change from reference + 5°C ,(9°F)		24°C	Max. Change from reference ± 3°C ,(5.4°F)		49°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:										

