

TÜV SÜD America Inc.

Product Safety Services

47523 Clipper Drive Plymouth, MI 48170

Phone: 734.455.4841

Surfacing Material Report - ASTM F1292-13

| | Surfacing ivi | atoriar ive | JOIL NOTH TIES | | | |
|--|-----------------------------|-------------------|--|--------------------|---|---------------------------|
| Client: PlayMax Surfacing, Inc. Manufacturer: PlayMax Surfacing, Inc. PlayMax Surfacing, Inc. Corona, CA Phone: (951) 250-6039 Commercial Name of product: PolyMax - 2" Date of Manufacture: Unknown No. of samples submitted: 3 - 18in. X 18in. Samples | | | TUV Report No.: 72104954-16 Report Date: 4/14/2015 Test Date: 4/6/15 and 4/7/15 Initial Test Follow up Test □Ref Job: Sample Receipt Date: 4/6/2015 Ambient Air Temperature: 22.6°C Humidity: 22.0% | | | |
| | | Test Equ | uipment: | | | |
| | Triax System 4: | \checkmark | Environmental | Chamber No.: | PLYP00101 | |
| | Triax System 1: | | Calibrat | ion Due Date: | 6/17/15 | |
| | Accelerometer ID: | PLYP00089 | Environmental | Chamber No.: | PLYP00069 | |
| Accelerometer C | alibration Due Date: | 8/1/2015 | Calibrat | ion Due Date: | 8/11/15 | |
| | Loose fil | l Material S | Sample Description: | | | |
| Engineered Wood Fiber: | - | | Un-compacted Depth: | | Inches | |
| Loose Fill Wood | | | | | | |
| Rubber: | _ | | | | | |
| Sand: | _ | | Compacted Depth: | | Inches | |
| Gravel: | _ | | | | | |
| Other: | _ | | | | | |
| | | tary Samn | e Description: | | | |
| | Tiles | | | al Thickness: | | |
| | Poured in Place | | 100 | Top Layer: | | |
| | Turf | | | Base Layer: | 0.5in. | |
| | | | | | 1.511. | |
| Comments: | | | | | | |
| The above | described sample | was tested a | <u>ıt: 4 Ft.</u> | | | |
| | | | | | | |
| The results reported herein reflect the to the described samples. Samples of an accurate representation of the test r | surfacing materials that do | not closely match | the described samples will perfo | orm differently. T | reported. The results a he following data shee | re specific t provides |
| Sample in compliance with ASTM F | 1292-13 at the temperat | ure and rating s | pecified? Yes | \checkmark | No | |
| Signature: Time | the Tombia | Title: fre | est Coophatos | Date: | 4/14/15 | |
| Reviewed by: | ×4. ~ | Title:Ke | growal mgr. | Date: | 4/15/15 | |



TÜV SÜD America Inc.

Product Safety Services

47523 Clipper Drive Plymouth, MI 48170

Phone: 734.455.4841

Surfacing Material Report - ASTM F1292-13

| Client: PlayMax Surfacing, Inc. Manufacturier: PlayMax Surfacing, Inc. Manufacturier: PlayMax Surfacing, Inc. Manufacturier (PlayMax Surfacing, Inc.) Manufacturier (DayMax Surfacing, Inc.) Manufacturing Location: Coronas, CA Phone: 9951) 250-6039 Commercial Name of product: PolyMax 3.5°. Date of Manufacturic (Dishnown No. of samples submitted: 3 - 18 In. X 18 In. Samples Test Equipment: Triax System 4: Dishnown Triax System 1: Dishnown Triax System 1: Dishnown Accelerometer Calibration Due Date: Braylonnerial Chamber No.: PLYP00101 Triax System 1: Dishnown Accelerometer Calibration Due Date: 811/2015 Calibration Due Date: 811/15 Accelerometer Calibration Due Date: Braylonnerial Chamber No.: PLYP00069 Accelerometer Calibration Due Date: 811/2015 Calibration Due Date: 811/15 Loose fill Material Sample Description: Loose fill Wood Dishnown Dishnown | | G dillidigi ini | | 0010 710 | | | | |
|--|---|--|-------------------------|---------------|---------------------|--|--|-----------------------------|
| Triax System 4: | Manufacturer: Manufacturing Location: Phone: Commercial Name of product: Date of Manufacture: | PlayMax Surfacing, In Corona, CA (951) 250-6039 PolyMax - 3.5" Unknown | <u>c.</u> | | Fo Sample F | Report Date: Test Date: Initial Test ollow up Test Receipt Date: Temperature: | 4/14/2015 4/7/15 and 4/8/15 ☑ Ref Job: 4/6/2015 22.1°C | |
| Triax System 1: | | | Test Equ | uipment: | | | | |
| Accelerometer ID: PLYP00089 | | Triax System 4: | $\overline{\mathbf{v}}$ | | Environmental C | Chamber No.: | PLYP00101 | |
| Loose fill Material Sample Description: Engineered Wood Fiber: | | Triax System 1: | | | Calibrati | on Due Date: | 6/17/15 | |
| Engineered Wood Fiber: Un-compacted Depth: Inches Loose Fill Wood Rubber: Compacted Depth: Inches Rubber: Inches Sand: Compacted Depth: Inches Gravel: Inches Unitary Sample Description: Tiles Total Thickness: 3.5in. Top Layer: 0.6in. Base Layer: 3.0in. Comments: The maximum critical fall height 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 in accurate representation of the test results. Compliance with this Standard does not constitute product certification. Sample in compliance vith ASTM F1292-13 at the temperature and rating specified? Yes No Signature: Inches | | Accelerometer ID: | PLYP00089 | | Environmental C | Chamber No.: | PLYP00069 | |
| Engineered Wood Fiber: Un-compacted Depth: Inches Loose Fill Wood Rubber: Compacted Depth: Inches Sand: Compacted Depth: Inches Sand: Compacted Depth: Inches Sand: Sand: Compacted Depth: Inches Unitary Sample Description: Tiles Total Thickness: 3.5in. Top Layer: O.5in. Base Layer: 3.0in. Comments: The maximum critical fall height of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Sample was determined to be: 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. Sample of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides in accurate representation of the test results. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Signature: No Signature: Signature: Signature: Title: Provided Compliance with Standard Samples Compliance with Standard Samples Compliance with Standard Samples Samples on Constitute product certification. | Accelerometer C | alibration Due Date: | 8/1/2015 | | Calibration | on Due Date: | 8/11/15 | |
| Loose Fill Wood Rubber: Compacted Depth: Inches Inches Sand: Compacted Depth: Inches Inches Gravel: Other: Unitary Sample Description: Total Thickness: 3.5in. Total Thickness: | | Loose fill | Material S | Sample Do | escription: | | | |
| Loose Fill Wood | Engineered Wood Fiber: | | | Un-compacte | d Depth: | | Inches | |
| Rubber: Sand: Compacted Depth: Inches Gravel: Other: | | | | on compacte | | | | |
| Sand: Gravel: Gravel: Other: Unitary Sample Description: Unitary Sample Description: Total Thickness: 3.5in. Top Layer: 0.5in. Base Layer: 3.0in. | | _ | | | | | | |
| Unitary Sample Description: Titles | | _ | | Compacte | d Depth: | | Inches | |
| Unitary Sample Description: Tiles | | | | • | | | | |
| Unitary Sample Description: Tiles | | _ | | | | | | |
| Tiles | | - | toru Comp | lo Docorir | otion: | | | |
| Poured in Place Turf Base Layer: O.6in. 3.0in. The maximum critical fall height of the above described | | | | e Descrip | | l Thickness: | | |
| Comments: The maximum critical fall height of the above described sample was determined to be: 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. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Signature: Title: Here of testing and at the temperature(s) reported. The results are specific to the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Date: 4/m/rs | | 0.00 | | | TOTA | | | |
| The maximum critical fall height 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. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Signature: Title: Title | | | | | | Base Laver: | 0.5in. | |
| Sample was determined to be: 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. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Date: 4/re/is | Comments: | 1011 | ш | | | Dado Lajon | 3,0In. | |
| Sample was determined to be: 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. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Date: 4/re/is | | | | | | | | |
| Sample was determined to be: 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. Compliance with this Standard does not constitute product certification. Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes No Date: 4/re/is | | | | | | | | |
| Signature: Signa | The maximum critical fa | | | | Ft. | | | |
| Signature: Dinostra Janutica Title: Project Coordinator Date: 4/14/15 | to the described samples. Samples of | surfacing materials that do | not closely match | the described | samples will perfor | m differently. T | reported. The results he following data she | are specific et provides |
| | Sample in compliance with ASTM F | 1292-13 at the temperate | ure and rating s | pecified? | Yes | abla | No | |
| Reviewed by: Date: 4/15/15 | Signature: | Sin Doubera | U | | dinator | Date: | 4/11/15 | - |
| | Reviewed by: | Xon | Title: Q | Man a C | mga. | Date: | 4/15/15 | _ |



ABC PLAYGROUND SAFETY

2235 243rd, Lomita, CA 90717 Phone: (310) 880-6126 sales@abcplaygroundsafety.com www.abcplaygroundsafety.com

TRIAX 2000 Data Acquisition and Analysis Report

PlayMax Surfacing Report Date: 12-18-15

| Drop | Material Size | Drop Height (Feet) | Drop Height Ft/Sec. | Angle | G Max - Peak | HIC Head Injury Criterion | Time |
|----------------|------------------|--------------------------|---------------------------|-------|-----------------|------------------------------------|-------|
| Sample PolyMax | | | | | | | |
| 1 | 4 1/4" | 8' | 22.6 | 7 | 107 | 665 | 12:36 |
| 2 | 4 1/4" | 8' | 22.6 | 0 | 111 | 705 | 12:37 |
| 3 | 4 1/4" | 8' | 22.6 | 2 | 111 | 695 | 12:38 |
| Avg 2 & 3 | | | | | 111 | 700 | |

