



**CLIENT:**

Company:	Everplay International, Inc
Address:	18 Automatic Road, Unit 12
	Brampton, Ontario CANADA L6S5N5
Requested By:	

**TEST MATERIAL:**

Date Material Received:	October 27, 2021
Material Type:	Playground Surfacing
Material Condition:	Excellent, New
Material ID:	Everplay

**TESTING METHODS REQUESTED:**

<i>Testing Services Inc. was instructed by the client to test for the following...</i>			
Standard:	ASTM E303	Test Method:	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester

**SAMPLING PLAN:**

Sampling Date:	10/27/21
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI beside the ground level dock door.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li> </ul>	

**DEVIATION FROM TEST METHOD:**

State reason for any Deviation from, Additions to, or Exclusions From Test Method.	
None	

**TEST SCOPE:**

This test method covers the procedure for measuring surface frictional properties using the British Pendulum Skid Resistance Tester. The British Pendulum Tester is a dynamic pendulum impact-type tester used to measure the energy loss when a rubber slider edge is propelled over a test surface.

The safety surface was initially tested dry in one direction and then dry 90 degrees to the initial direction. Next, the safety surface was tested wet in one direction and then wet 90 degrees to the initial direction. Five skids were made in each direction and the final 4 averaged per ASTM E303. The results are listed below.

**TEST SUMMARY:**

TEST METHOD	TEST DESCRIPTION	TEST RESULT	
ASTM E303-93(2018)	Skid Resistance	Initial Dry	98.25 BPN avg.
		90 Degree Dry	102.25 BPN avg.
		Initial Wet	49.5 BPN avg.
		90 Degree Wet	51.0 BPN avg.

**Interpretation of Results**

The presently accepted test limits when using the Four S Rubber Slider, type 96 are those recommended by the UK Slip Resistance Group. The minimum value expected under Health & Safety Executive regulations and UK laws when floor is Wet or Contaminated is 36 BPN.

Classification of Flooring (Likelihood of Slip)	Four S Rubber / BPN Reading
High	25 and below
Moderate	25 to 35
Low	35 to 65
Extremely Low	65 and above

**Uncertainty:**

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information using the latest test methods available. TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

Test Report Approval:

Erle Miles, III, Lab Director Testing Services (TSI) LLC

TSI Accreditation: Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0. TSI is an Organizational Member of ASTM (American Society for Testing and Materials).

