

FAI Materials Testing Laboratory, Inc.

825 Chance Road, Marietta, Georgia 30066 ▪ Ph 770-928-1930 ▪ Fax 770-928-9202 ▪ Info@FALUS ▪ www.FALUS

Testing Results and Analysis

18 December 2012

Pro Shoe Covers
129 Pendleton Way #31
Washougal, WA 98671

FAI Project: 1212020
Re: Coefficient of Friction Testing of Shoe Cover Material

Thank you for choosing FAI Materials Testing Laboratory for your chemical and materials testing needs. We are committed to providing you with the best customer service possible.

Timeliness and Satisfaction

Our goal is to complete your project within the approved time frame and budgets specified. In the event of unforeseen obstacles, we will strive to keep you fully informed of our progress and status. This is our commitment to each and every customer. It is for these reasons that your feedback pertaining to the quality, effectiveness, and timeliness of our performance will always be appreciated.

Guarantee of Quality

FAI Materials Testing Laboratory stands behind our test results to be accurate as reported. The test results apply to the samples received and may not be representative of the entire lot.

Sample Storage

Should the need arise for any further testing, FAI Materials Testing Laboratory commits to maintain possession of any residual samples for a period of three (3) months unless otherwise stated or requested, after which they will be discarded.

We thank you for this opportunity and look forward to working with you on future projects.

Sincerely,



Jon M. Crate, FAI President

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Introduction

FAI Materials Testing Laboratory received ten 4.5” x 4.5” samples of material used to make ‘Pro Shoe Covers’, five 5” x 10” tile samples, and four 5” x 10” wood flooring samples for coefficient of friction testing.

Friction Testing

The shoe cover material was cut into 2.5” x 2.5” squares and tested against both the wood flooring and tile samples to determine the coefficients of static and kinetic friction. An Instron Universal Testing Machine Model 4201 with the sled and plane set up according to ASTM D 1894 was used. The sled apparatus was pulled at a rate of 6 in/min and the weight of the sled used was 2273.5 g. Table 1 summarizes the results of friction testing of the shoe covers against the provided wood flooring samples and Table 2 summarizes the results of friction testing against tile.

Table 1: Coefficient of Static and Kinetic Friction for Shoe Covers Against Wood Flooring

Sample	Coefficient of Static Friction	Coefficient of Kinetic Friction
1	1.42	1.29
2	1.48	1.34
3	1.39	1.29
4	1.59	1.46
5	1.32	1.18
Average	1.44	1.31

Table 2: Coefficient of Static and Kinetic Friction for Shoe Covers Against Tile

Sample	Coefficient of Static Friction	Coefficient of Kinetic Friction
1	1.34	1.24
2	1.27	1.15
3	1.33	1.20
4	1.34	1.20
5	1.28	1.12
Average	1.31	1.18

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If you have any questions about this report, please feel free to contact us.

Sincerely,



Prepared by: Cam Chatham, Polymer Engineer



Reviewed by: Stuart McRae, PE