



301 Conover Station SE; Conover, NC 28613

Brad Hayes
DigitSock
55 W 100 N
PO Box 1000
Kumas, UT 84036

RECEIVED DATE: April 13, 2022
COMPLETED DATE: April 21, 2022

REFERENCE: TS 171170 Sample Type: Knitted Fabric
Style: DigitSock gloves Sample Form: Gloves
Color: Black/Silver Size: N/A
Description: Silver Threaded Gloves

TEST RESULTS:

Abrasion Resistance - Option 1 (Hole):

• ASTM Standard D4966-12(Reapproved 2016), "Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)" - Modified, ASTM International, West Conshohocken, PA, 2010, DOI: 10.1520/ D4966-12R16, www.astm.org

Testing Results:

Sample Prep:	Original/As Received State	
Specimen 1	16,527 rubs	1,033 cycles or Lissajous Figures
Specimen 2	16,375 rubs	1,023 cycles or Lissajous Figures
Specimen 3	25,000 rubs	1,563 cycles or Lissajous Figures
Average	19,301 rubs	1,206 cycles or Lissajous Figures

Stopped before hole

- Rub = one rotation of the two outer gears of the Martindale Abrasion Tester
- Abrasion cycle = for the Martindale Abrasion Tester, 16 rubs required to complete a geometric shape, known as a Lissajous.
- Lissajous Figure = geometric figure that starts as a straight line, then becomes a widening ellipse, and narrows to again become a straight line. There are 16 rubs in one Lissajous figure.

Testing Information:

- Abradant Trizact
- Mass of Weight = 9 kPa for apparel fabrics
- Lissajous Figure for abrasion
- Sample brought to moisture equilibrium; Testing Conditions: 21°C (± 2°C) and 65%RH (± 5%RH)

Kaitlin Sigmon
Testing Lab Technician
Manufacturing Solutions Center–Testing Lab
(828) 327-7000 ext. 4683

kaitlins@manufacturingsolutionscenter.org
www.manufacturingsolutionscenter.org
www.legsource.com

The test results are based on the submitted sample(s) only. The Manufacturing Solutions Center's liability shall not exceed the fees paid for the testing reflected on this report. It is the customer's responsibility to ensure that they comply with all U.S. federal, state/local laws & regulations. These tests are not to be used for marketing purposes without the express written consent of the Director of the Manufacturing Solutions Center at Catawba Valley Community College. The test report shall not be reproduced except in full, without written approval from the Manufacturing Solutions Center. All results will be kept confidential.