Report # K-418707-1406G03		Test Report Kinectrics Inc., 800 Kipling Avenue, Unit 2 Toronto, Ontario, Canada Tel: 416-207-6000, www.kinectrics.com
Samples Received: June 17, 2014	Samples Tested: July 25, 2014	

Tested for

Arcwear.com
502-333-0510
arctesting@arcwear.com

Contact information for item tested:

Showa Best Glove
579 Edison Street
Menlo, GA 30731
706-862-6712

Test item description

Showa Best Glove Inc.,
Glove, Style Flash, Flame, & Cut (Sample A),
Fabric: Style FCC, Seamless Glove Knit, 33.3% Kevlar, 33.3% Fiberglass,
33.3% Modacrylic, with Air Infused Polychloroprene Dip Coating,
Thickness: Back min 1.0 mm, max 1.2 mm, average 1.1 mm, Palm min 1.6 mm, max 1.9 mm, average 1.7 mm,
ArcWear# 1406G03

Reference Standard

ASTM F2675 / F2675M - 13
Standard Test Method for Determining Arc Ratings of Hand Protective Products Developed and Used for Electrical Arc Flash Protection

Test Parameters:

Test current: 8 kA
Arc Gap: 30 cm
Distance to Fabric: 30 cm

Number of samples analysed: 20

Incident Energy Range: 6 to 22 cal/cm²

Arc Rating, ATPV = 9.2 Cal/cm²
Heat Attenuation Factor, HAF = 72%

No variations to standard method noted.
Break-open Ebt not achieved or determined.
Samples tested as received, samples not laundered

Summary

The Arc Rating of this material is intended for use as part of a flame resistant garment or system for workers exposed to electric arcs. The test result is applicable only to the test item as described; other fiber blends, weaves, finishing or dye may have different protection level. The test articles are tested as received; no test is done to validate the fiber content or composition. The Arc Rating was calculated based on the data obtained and analysed in accordance with the latest version of the applicable standards. The individual test sheets, graphs, photographs of the samples and video of every test are provided in digital format to the Client for review.

The arc testing performed to the above mentioned Standard is done under Kinectrics Quality Management System registered to ISO 9001 :2008 by QMI-SAI Global (also accredited under ANAB).

Kinectrics Inc takes reasonable steps to ensure that all work performed shall meet the industry standards as set out in Kinectrics Inc.'s Quality Manual, and that all reports shall be reasonably free of errors, inaccuracies or omissions. KINECTRICS INC. DOES NOT MAKE ANY WARRANTY OR REPRESENTATION WHATSOEVER, EXPRESS OR IMPLIED, WITH RESPECT TO THE MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY INFORMATION CONTAINED IN THIS REPORT OR THE RESPECTIVE WORKS OR SERVICES SUPPLIED OR PERFORMED BY KINECTRICS INC. Kinectrics Inc. does not accept any liability for any damages, either directly, consequentially or otherwise resulting from the use of this report.

Note: The test performed does not apply to electrical contact or electrical shock hazard.

Performed by:

Andrew Haines
Station Operator, HCL
Ph: 416-207-6000

Approved by:

Digitally signed by Claude Maurice
Date: 2014.08.22 16:37:03 -04'00'

Claude Maurice
Test laboratory manager
Kinectrics Inc.

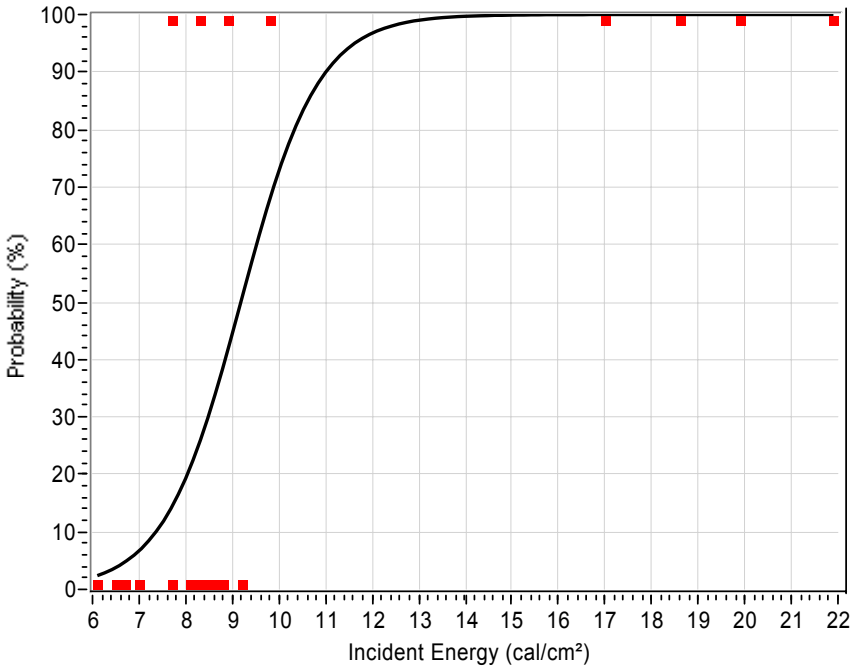
Note: For verification about results in this report, please forward copy of the report or inquiry to hcl@kinectrics.com

Date: July 25, 2014	Determination of ATPV by performing logistic regression on the panel burn response as indicated in Summary Table
Report # K-418707-1406G03	Test Performed in accordance with: ASTM F2675 / F2675M - 13

Fabric Description:

Showa Best Glove Inc.,
Glove, Style Flash, Flame, & Cut (Sample A),
Fabric: Style FCC, Seamless Glove Knit, 33.3% Kevlar, 33.3% Fiberglass,
33.3% Modacrylic, with Air Infused Polychloroprene Dip Coating,
Thickness: Back min 1.0 mm, max 1.2 mm, average 1.1 mm, Palm min 1.6 mm, max 1.9 mm, average 1.7 mm,
ArcWear# 1406G03

Determination of ATPV

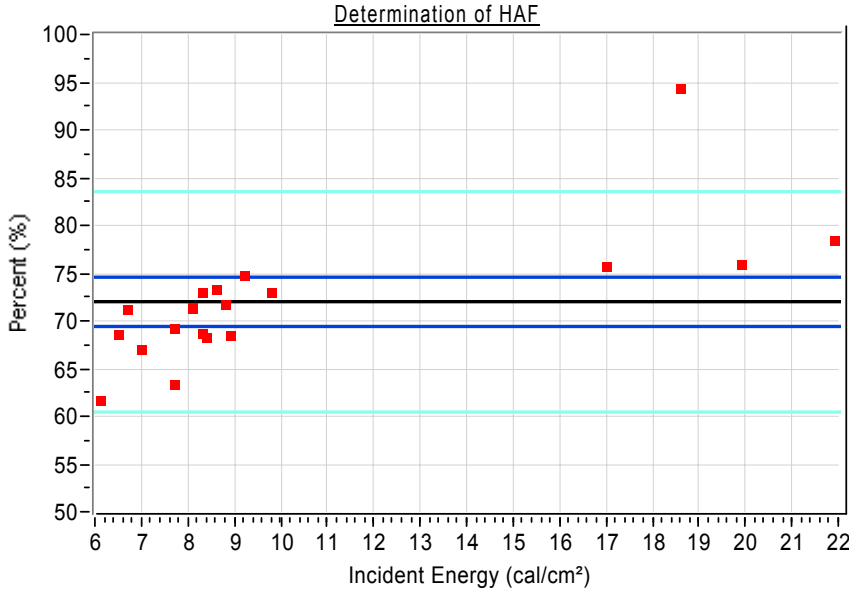


ATPV = 9.2 cal/cm²

Probability	Ei
5%	6.7
10%	7.4
20%	8.0
30%	8.5
40%	8.8
50%	9.2
60%	9.5
70%	9.9
80%	10.3
90%	11.0

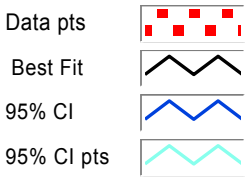
Total points analyzed = 20
Points above Stoll = 8
Points above mix zone = 5
Points below mix zone = 4
 # Pts within 20% = 12
 # Pts in mix zone = 11

Determination of HAF



HAF = 72 %

Confidence Intervals
95% CI = 69.4 , 74.6



Date:
July 25, 2014

Report #
K-418707-1406G03

Summary of Measured Energy and Observations

Test Performed in accordance with : ASTM F2675 / F2675M - 13

KINECTRICS

Fabric Description: Showa Best Glove Inc.,
Glove, Style Flash, Flame, & Cut (Sample A),
Fabric: Style FCC, Seamless Glove Knit, 33.3% Kevlar, 33.3% Fiberglass,
33.3% Modacrylic, with Air Infused Polychloroprene Dip Coating,
Thickness: Back min 1.0 mm, max 1.2 mm, average 1.1 mm, Palm min 1.6 mm, max 1.9 mm, average 1.7 mm,
ArcWear# 1406G03

	Test #	Panel	Test Current A	Cycles of 60Hz	Ei Cal/cm²	SCD Cal/cm²	HAF %	Burn Y/N	Break Open Y/N	Ablation Y/N	After Flame sec.	Omit Y/N	Comment
1	K-418707-4651	A	8255	10.2	8.4	-0.1	68.3	No	-	-	-	No	
2	K-418707-4651	B	8255	10.2	7.7	-0.2	69.2	No	-	-	-	No	
3	K-418707-4651	C	8255	10.2	8.6	-0.2	73.3	No	-	-	-	No	
4	K-418707-4651	D	8255	10.2	8.3	-0.4	73.0	No	-	-	-	No	
5	K-418707-4652	A	8212	11.2	8.1	-0.2	71.3	No	-	-	-	No	
6	K-418707-4652	B	8212	11.2	8.3	0.0	68.7	Yes	-	-	-	No	
7	K-418707-4652	C	8212	11.2	8.1	-0.1	71.4	No	-	-	-	No	
8	K-418707-4652	D	8212	11.2	7.7	0.3	63.4	Yes	-	-	-	No	
9	K-418707-4653	A	8238	12.2	9.2	-0.3	74.8	No	-	-	-	No	
10	K-418707-4653	B	8238	12.2	8.8	-0.1	71.8	No	-	-	-	No	
11	K-418707-4653	C	8238	12.2	9.8	0.1	73.0	Yes	-	-	-	No	
12	K-418707-4653	D	8238	12.2	8.9	0.3	68.5	Yes	-	-	-	No	
13	K-418707-4654	A	8303	9.2	6.7	-0.6	71.2	No	-	-	-	No	
14	K-418707-4654	B	8303	9.2	7.0	-0.1	67.1	No	-	-	-	No	
15	K-418707-4654	C	8303	9.2	6.5	-0.3	68.6	No	-	-	-	No	
16	K-418707-4654	D	8303	9.2	6.1	-0.1	61.7	No	-	-	-	No	
17	K-418707-4655	A	8074	25.2	21.9	2.1	78.5	Yes	-	-	-	No	
18	K-418707-4655	B	8074	25.2	19.9	2.3	75.9	Yes	-	-	-	No	
19	K-418707-4655	C	8074	25.2	18.6	-1.2	94.4	Yes	-	-	-	No	Glove turned palm forward for ignition test - no ignition
20	K-418707-4655	D	8074	25.2	17.0	1.5	75.7	Yes	-	-	-	No	
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