3018 Eastpoint Parkway, Louisville, KY 40223. 502-333-0510, www.ArcWear.com

Sampling and Specimen Preparation - Arc Testing

Date: December 13, 2017 Report #: 1712P02-SP

Client: Seattle Fire Department
1300 East Pine Street
Seattle, WA 98122
206-386-1425

At request of: Chris Greene

Sample Identified By Client As:

Seattle Fire Department, 5 Layers, Mfg. Safety Components, Style PBI Max, 7.0 oz/yd² 237 g/m² Twill, PBI-Kevlar Blend, Black, As Received 7.2 oz/yd² 244 g/m², AAD 7.2 oz/yd² 244 g/m² over Mfg. Safety Components, Style Chambray FC, 3.2 oz/yd² 108 g/m² Plain Weave, Nomex IIIa, Blue, AAD 3.1 oz/yd² 105 g/m² over Mfg. WL Gore, Style Crosstech Black, 4.7 oz/yd² 159 g/m² Rip stop substrate film, Nomex IIIa-PTFE, White-Black, As Received 4.7 oz/yd² 159 g/m², AAD 4.8 oz/yd² 163 g/m² over Mfg. Safety Components, Style Glide 1L Araflo, 5.4 oz/yd² 183 g/m² Twill Weave Face Cloth quilted to Spunlace, Nomex-Lenzing FC quilted to Nomex-Kevlar Blend Spunlace, Blue/Yellow, As Received 5.4 oz/yd² 183 g/m², AAD 5.4 oz/yd² 183 g/m², ArcWear# 1712P02

Sample received on: October 9, 2017

Test Procedure:

The samples were laundered 3 times in accordance with Section 8.2.1 of ASTM F1959/F1959M-14 *Standard Test Method for Determining the Arc Rating of Materials for Clothing* and AATCC Test Method 135-15, Procedure 3, IV, Aiii. The post-laundered areal density was determined and test specimens were cut, assembled, and prepared for testing in accordance with Section 8 of ASTM F1959/F1959M-14 *Standard Test Method for Determining the Arc Rating of Materials for Clothing*. The total weight per load of the specimens and ballast (if used) was 8 lbs.

This is a design test which is required as a part of the compliance with ASTM F1506-10a. Other tests and ongoing testing are required for full compliance. ArcWear recommends asking for reports of ongoing testing from the manufacturer of the garment or fabric. Of special importance is vertical flammability but other test requirements may also be desired as proof that the product meets the full performance specification.

The results of testing to ASTM F1959/F1959M-14* have been documented in Kinectrics Report Number K-352012-1712P02. Based on this test report, this sample received a final performance value of

Arc Rating: EBT = 62 cal/cm²

Signed for the Company by:

Hugh Hoagland
Digitally signed by Hugh Hoagland
Date: 2017.12.13 11:31:50 -05'00'

Hugh Hoagland
President

ACCREDITED
TESTING CERT #3570.01

*ASTM F1959/F1959M-14 is performed at Kinectrics and is on their scope of accreditation (SCC Accredited Lab # 610). ASTM F1959 is not on ArcWear's scope of accreditation.