

Report # K-352105-01-R00

Test Report

Kinectrics Inc., 800 Kipling Avenue, Unit 2
Toronto, Ontario, Canada
Tel: 416-207-6000, www.kinectrics.com



Samples Received: Sep-18-18
Samples Tested: Sep-28-18

Tested for

PyroTex Industries GmbH
Lerchenstr. 28a,
22767 Hamburg, Germany
rjarausch@pyro-tex.de

Contact information for item tested:

PyroTex Industries GmbH
Lerchenstr. 28a,
22767 Hamburg, Germany
rjarausch@pyro-tex.de

Test item description

3 Layer System; Style 4I1-100 Interlock; Fiber Blend: 100% PyroTex;
Weave/Knit Type: Jersey Knit; Colour: Anthra; Nominal Weight: 170 g/m²; Weight as Tested: 149 g/m²; over
Style 6W15-8515 Padding; Fiber Blend: 85% PyroTex, 15% Polyester;
Weave/Knit Type: Non-woven Batting; Colour: Pink; Nominal Weight: 40 g/m²; Weight as Tested: 74 g/m²; over
Style 4I1-100 Interlock; Fiber Blend: 100% PyroTex;
Weave/Knit Type: Jersey Knit; Colour: Anthra; Nominal Weight: 170 g/m²; Weight as Tested: 149 g/m²;

Reference Standard

IEC 61482-1-1:2009 Method A, ASTM F1959/F1959M-14e1
Complying with both IEC and ASTM Standard Test Method for Determining the Arc Rating of Materials for Clothing

Test Parameters:

Test current: 8 kA	Number of samples analysed: 21
Arc Gap: 30 cm	
Distance to Fabric: 30 cm	Incident Energy Range: 9 to 32 cal/cm ²

Arc Rating, ATPV = 26 Cal/cm²

Material Break-Open, Ebt = 27 Cal/cm²

Heat Attenuation Factor, HAF = 91%

Material break-open threshold energy (Ebt) above ATPV determined as requested by client.
No variations to standard method noted.

Samples tested as received, pre-test laundering as required by standard was arranged by client.

Test 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 accredited by the Standards Council of Canada (SCC) to conform to the requirements of CAN-P-4E (ISO/IEC 17025:2005). Accreditation by the Standards Council of Canada (SCC) is a mark of competence and reliability recognized throughout the world.

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

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Prepared by:

Digitally signed by
Yosbani Guerra
Date: 2018.10.04
15:57:00 -04'00'

Yosbani Guerra
HCL Technologist
Kinectrics Inc.

Approved by:

Andrew Haines
2018.10.04
15:55:35 -04'00'

Andrew Haines
HCL Supervising Technologist
Kinectrics Inc.

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