
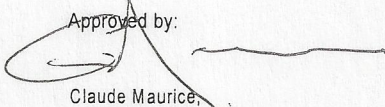


Report # K-418406-07-01		<b>Test Report</b>		 <b>KINETRICS</b> ISO 9001-2008
Samples Received: July 12, 2012	Samples Tested: July 13, 2012	Kinectrics Inc., 800 Kipling Avenue, Unit 2 Toronto, Ontario, Canada Tel: 416-207-6000, www.kinectrics.com		
<u>Tested for</u> NORFAB CORP. 1032 Stanbridge Street Norristown, PA. 19401 -USA Attn. H.N.Lilani		<u>Contact information for item tested:</u> NORFAB CORP. 1032 Stanbridge Street Norristown, PA. 19401 -USA Attn. H.N.Lilani		
<u>Test item description</u> NORFAB Fabric # 5PT339 -60"- 62, green outer shell ( 4.7 OSY, Plain Weave, Tri-Blend 30 OPF/ 30 KYNOL+ / 40 TWARON) over Omni Quilt # 6 OQ1- PB-1, blue face thermal liner, <i>Amlo</i> (2.6 OSY Basofill/Aramid Blend Spunlaced quilted to 3.2 OSY Blue Dyed Nomex Face Fabric)				
<u>Reference Standard</u> ASTM F1959/F1959M-06ae1 Standard Test Method for Determining Arc Thermal Performance of Textile Materials for Clothing by Electric Arc Exposure Method				
<u>Test Parameters:</u>				
Test current: 8 kA		Number of samples analysed: 24		
Distance to Fabric: 30 cm		Incident Energy Range: 30 to 52 cal/cm <sup>2</sup>		
Arc Gap: 30 cm				
<hr/> <b>Arc Rating, ATPV = 41 Cal/cm<sup>2</sup></b> <b>Heat Attenuation Factor, HAF = 94%</b> <hr/>				
<u>Summary</u> The Arc Rating of this material is intended for use as part of a flame resistant garment for workers exposed to electric arcs. The material was tested by Kinectrics as received. The test result is applicable only to the Test Item, other material or color may have different protection level. Actual performance of the complete garment may vary depending on the final design and assembly of the garment. 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.				
As of August 1, 2010, the arc testing performed to the above mentioned Standard is accredited by the Standards Council of Canada to conform to the requirements of CAN-P-4E (ISO/IEC 17025:2005) by QMI, a division of SAI Global and North America's leading QMS registrar. Adherence to this standard provides one of the strongest assurances of service quality available. As a minimum, since July 1998 all work at Kinectrics is performed to meet the requirements of ISO 9001.				
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<u>Note</u> - The test performed does not apply to electrical contact or electrical shock hazard. - An unsigned copy of this report is an unofficial reporting of information. Report must be signed to validate test data and conform to quality standards.				
Performed by:  Joe Ogrodowczyk Station Operator High Current Laboratory Ph: 416-207-6000		Approved by:  Claude Maurice, Lab Manager High Current Laboratory hcl@kinectrics.com		



Date:  
July 13, 2012

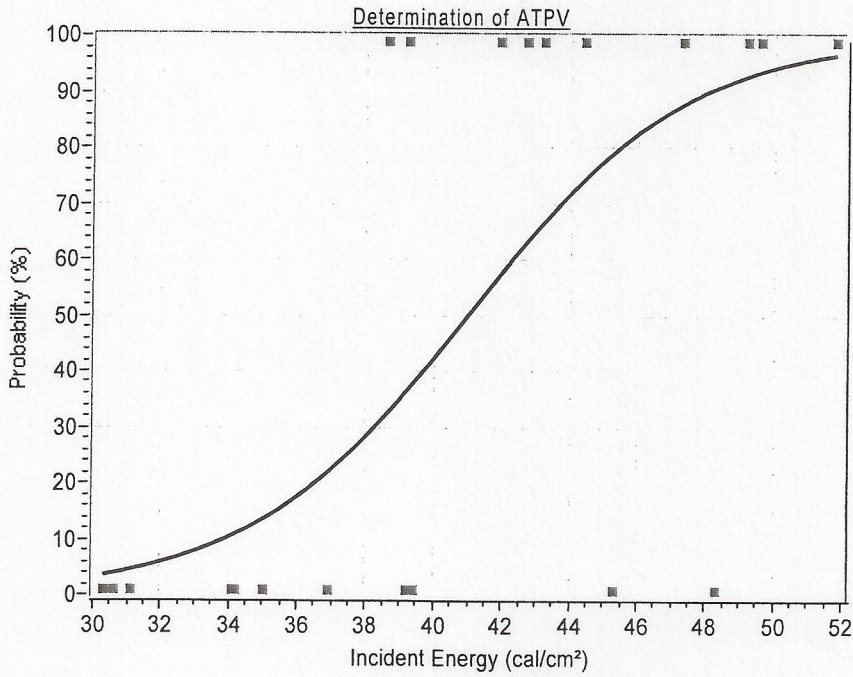
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Determination of ATPV by performing logistic regression on panel burn response as indicated in Summary Table

Test Performed in accordance with : ASTM F1959/F1959M-06ae1



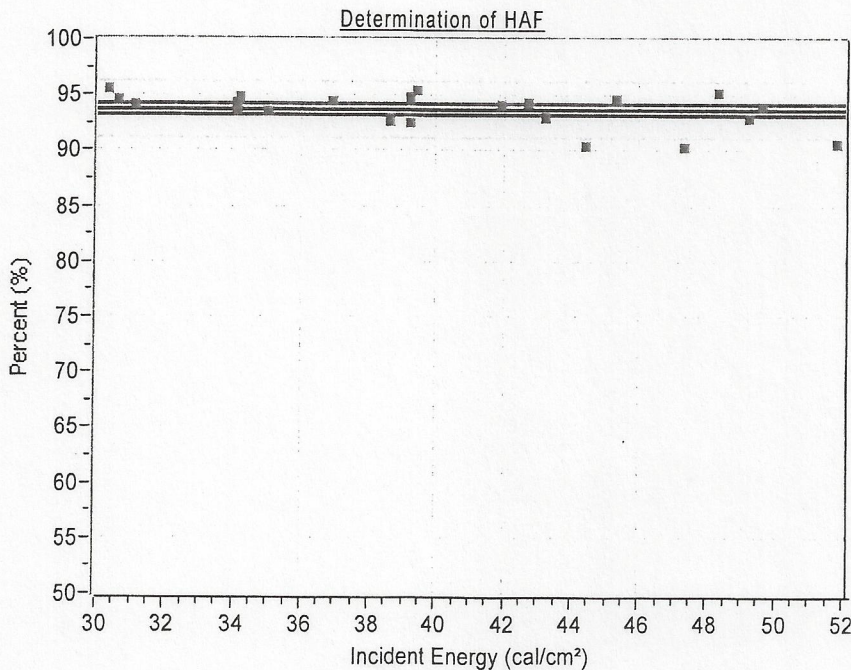
**Fabric** NORFAB Fabric # 5PT339 -60"- 62, green outer shell  
**Description:** ( 4.7 OSY, Plain Weave, Tri-Blend 30 OPF/ 30 KYNOL+ / 40 TWARON) over  
Omni Quilt # 6 OQ1- PB-1, blue face thermal liner, *PTA*  
(2.6 OSY Basofill/Aramid Blend Spunlaced quilted to 3.2 OSY Blue Dyed Nomex Face Fabric)



ATPV = 41 cal/cm<sup>2</sup>

Probability	Ei
5%	31.5
10%	33.9
20%	36.5
30%	38.3
40%	39.7
50%	41.0
60%	42.3
70%	43.7
80%	45.5
90%	48.1

# Pts = 24  
# Pts above Stoll = 11  
# Pts Break-Open = 3  
# Pts always >STOLL = 3  
# Pts always <STOLL = 9  
# Pts within 20% = 18  
# Pts in mix zone = 12



HAF = 94 %

Confidence Intervals  
95% CI = 93.5 , 94.5

Data pts

Best Fit

95% CI

95% CI pts



