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TEST REPORT

Client:	Performance fabrics, Inc. , T/A HexArmor 2000 Oak Industrial Dr. NE Grand Rapids MI 49505 USA			
Entry No:	100906 (2 nd Amendment)			
Date Received: Client's Description:	17/07/2018			
	Single layer HA603R Super fabric: AG9X, AS019S, AG1009S, 9915,9911,AP229,AP230 and AP361 (fabric sample)			
Test Required:	EN 388:2016 Protective gloves against mechanical risks Clause 6.1 Abrasion resistance ^F Clause 6.2 Coupe test: Blade cut resistance ^F Clause 6.3 TDM: cut resistance ^S Clause 6.4 Tear resistance Clause 6.5 Puncture resistance			
Pre-treatment:	None			
Conditioning:	In accordance with BS EN ISO 139:2005 for a minimum of 24 hours at 50 \pm 5%, Relative Humidity, 23 \pm 2°C 19/07/2018			
Date Tests Completed:				
Note: Subcontracted test re	port available on request			
	End of Page			

This is hereby certified to be a correct return of the tests made of the items referred to herein

Natalie Teal Technologist Date of original 07/08/2018 Date of 2nd amendment 24/09/2018

Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.

Tests marked ^N in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory. Tests marked ^S in this certificate are performed under the Laboratory's Flexible Scope of Accreditation. Tests marked ^S in this certificate have been subcontracted to another ISO17025 Accredited Laboratory. ÷

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- ٠ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
- Uncertainty budgets for test methods contained within this report are available on request.

This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.







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Clause	EN 388 Performance Levels		Result (number of cycles)		Level
6.1 Abrasion resistance ^F			Single layer		
		100	Specimen 1	8000	
	Level 1	100	Specimen 2	8000	
	Level 2	500	Specimen 3	8000	
		2000	Specimen 4	8000	
Abrasive paper: Klingspor PL31B Grit 180 Batch: 88256 Adhesive tape: 3M ref 465	Level 5 -	Observation: eg anything other than hole formation			
6.2 Coupe test: Blade cut resistance (index) ^F (classification based on the lowest of the 2 calculated values) Blade type used OLFA RB 45mm Canvas batch used: 208	Level 1 Level 2 Level 3 Level 4 Level 5	1.2 2.5 5.0 10.0 20.0	Tested on Full See table of	assembly/glove results below	Ref only see table below
6.3 TDM: Cut resistance (N) ^{\$} EN ISO 13997:1999 Blade: Type GRU-GRU 88-0121 Neoprene: Fairprene	Level A Level B Level C Level D Level E Level F	2 5 10 15 22 30	Tested on Full assembly/glove Final result 33.2N		LEVEL F
6.4 Tear resistance (N)		10	Single layer		
(Classification based on lowest	Level 1	10	Specimen 1	99N	
performing layer)	Level 2	23 50	Specimen 2	88N	LEVEL 4
	Level 4	75	Specimen 3	84N	
	Level 5	-	Specimen 4	84N	
6.5 Puncture Resistance	Level 1 Level 2	20 60	Single layer	4000	LEVEL 2
(IN) (Classification determined by	Level 3	100	Specimen 1	102N	
lowest value recorded)	Level 4	150	Specimen 2	76N	
	Level 5	-	Specimen 3	89N	
			Specimen 4	87N	

Blade cut table of results

Specimen one			
Sequence	Control Specimen	Test Specimen	Control Specimen
1	1.0	>60.0	>60.0

Control specimen after test was 3 x more than original control specimen.

This test used as reference only TDM: Cut resistance test method required

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