



RM 1801-02, 1808 & RM 2010,
TOWER B, REGENT CENTRE,
63 WO YI HOP ROAD, KWAI CHUNG,
NEW TERRITORIES, HONG KONG
TEL: (852) 2429 7022, FAX: (852) 2429 7266
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TEST REPORT



Report No.: 00244-14

February 10, 2014
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APPLICANT:
GLOVETEX CO., LTD.

MS. JIDAPA NIMITJARAS
11 MOO 5 SOI KLONGMADUE 17 SETTHAKIJ RD.,
DONKAIDEE, KRATHUMBAN, SAMUTSAKHON,
THAILAND. 74110

Test(s) requested : EN 388, EN 407 TESTS Product Category : -- Product Type : --
Sample description:

Style / Article no.	: FG 111-312	Buyer	: --
Ref no.	: --	Exported to	: --
Order no.	: --	Date of receipt of application form	: Jan 10, 2014
End use	: --	Date of receipt of sample	: Jan 10, 2014
Supplier	: --	Testing period	: January 10, 2014- February 10, 2014
Number of sample(s)	: 12 PAIRS OF GLOVES	Service required	: REGULAR

1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Abrasion resistance of glove	Level 4	(S01)	---
Blade cut resistance of glove	Level 1	(S02)	---
Tear resistance of glove	Level 4	(S01)	---
Puncture resistance of glove	Level 3	(S01)	---
Burning Behaviour	Level 4	(S03)	---
Contact heat	Level 1	(S04)	---
Convective heat	Level 3	(S05)	---
●/■ Radiant heat	Level 2	(S06)	---
●/■ Small splashes of molten metal	Level 4	(S07)	---

- This test was sub-contracted to an approved sub-contractor.
- This test is not covered by HOKLAS accreditation

Note: P: Pass F: Fail

The abrasion and tear resistance both got level 4; the blade cut resistance got level 1; the puncture resistance got level 3 according to EN 388 standard. The Burning Behaviour and Small splashes of molten metal got level 4; contact heat got level 1; convective heat got level 3; radiant heat got level 2 according to EN 407 standard.

Approved by

John Cheung Fai Cheong
Assistant Laboratory Supervisor



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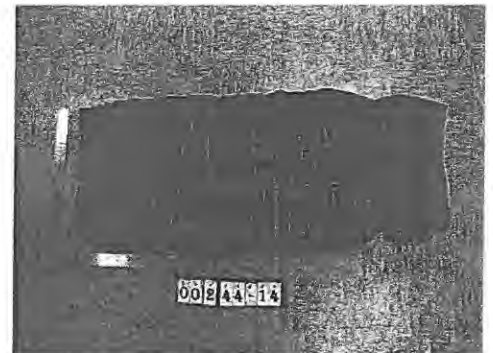
2. Label(s) on the sample(s):

Sample(s)	ID	Size	Style/Art. No.	Sub-sample(s)	Component(s)	Colour
(01)	i	--	FG 111-312	(a)	Glove	Black/yellow
(01)	ii	--	FG 111-312	(a)	Glove	Black/yellow
(01)	iii	--	FG 111-312	(a)	Glove	Black/yellow
(01)	iv	--	FG 111-312	(a)	Glove	Black/yellow
(01)	v	--	FG 111-312	(a)	Palm	Black
(01)	vi	--	FG 111-312	(a)	Palm	Black
(01)	vii	--	FG 111-312	(a)	Palm/Back	Black
(01)	viii	--	FG 111-312	(a)	Palm/Back	Black
(01)	ix	--	FG 111-312	(a)	Palm Back	Black
(01)	x	--	FG 111-312	(a)	Palm Back	Black
(01)	xi	--	FG 111-312	(a)	Palm/Back	Black
(01)	xii	--	FG 111-312	(a)	Palm/Back	Black

Remarks: (1) ID is used for identification in which the numbers of sample received are of the same article, ref. no., colour, etc.

3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)-i+ii	(a)
(S02)	(01)-iii	(a)
(S03)	(01)-iv	(a)
(S04)	(01)-v+vi	(a)
(S05)	(01)-vii+viii	(a)
(S06)	(01)-ix+x	(a)
(S07)	(01)-xi+xii	(a)



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4. Test Results :

TEST METHOD		Test item(s)		Requirement	P/F
		(S01)			
1	Abrasion resistance of glove # (NF EN 388:2004 §6.1) Lowest value of four tests : Performance Level :	8,000 4		--- ---	--- ---
2	Tear resistance of glove # (NF EN 388:2004 §6.3) Lowest value of four tests (N): Performance Level :	130 4		--- ---	--- ---
3	Puncture resistance of glove # (NF EN 388:2004 §6.4) Lowest value of four tests (N): Performance Level :	104 3		--- ---	--- ---

TEST METHOD		Test item(s)		Requirement	P/F
		(S02)			
4	Blade cut resistance of glove # (NF EN 388:2004 §6.2) Sequence	Index (I)		---	---
		Test 1	Test 2		
		1	2.0		
		2	1.5		
		3	2.0		
		4	1.9		
		5	1.4		
Average (I):		1.6	1.7	---	---
Lowest average value (I):		1.6		---	---
Performance Level :		1		---	---

Table of Performance Level for Glove

Test Item	Performance Level					
	0 **	1	2	3	4	5
Abrasion Resistance (NF EN 388:2004 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	---
Blade Cut Resistance (NF EN 388:2004 §6.2) Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (NF EN 388:2004 §6.3) Force (N) (minimum)	< 10	10	25	50	75	---
Puncture Resistance (NF EN 388:2004 §6.4) Force (N) (minimum)	< 20	20	60	100	150	---

** Performance level 0 means the glove falls below the minimum performance level for the given individual hazard.

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TEST METHOD	Test item(s)		Requirement	P/F
	(S03)			
5 Burning behaviour (EN 407:2004 §5.1) After flame time (s) After glow time (s) Dripping Seam destroyed Melting of innermost layer Performance Level : Ignition type: Bottom edge ignition	Ignition time		---	---
	3s	15s		
	0	0		
	0	0		
	No	No		
	No	No		
	4	No	---	---

Performance level in accordance with EN 407 §5.1

- no dripping
- seams shall not be destroyed (test 15 s)
- inner materials shall not melt

Performance level	After Flame time (s)	After glow time (s)
1	≤ 20	No Requirement
2	≤ 10	≤ 120
3	≤ 3	≤ 25
4	≤ 2	≤ 5

TEST METHOD	Test item(s)						Requirement	P/F	
	(S04)								
2 Contact heat (EN 407:2004 §5.2) Contact temperature (°C) Trial Threshold time (t) Performance Level :		100	250	350	500	Melting Innermost Layer	---	---	
		1	34.3	7.1	---	---			No
		2	41.6	8.2	---	---			No
		3	31.4	7.7	---	---			No
		Mean	35.8	7.7	---	---			---
			36	8	---	---			---
			1			---	---		

Performance level in accordance with EN 407 §5.2

Performance level	Contact temperature (°C)	Threshold time (s)
1	100	≥15
2	250	≥15
3	350	≥15
4	500	≥15

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TEST METHOD	Test item(s)			Requirement	P/F	
	(S05)					
3	Convective heat (EN 407:2004 §5.3) Time of 24°C temperature rise, T_{24} (s) Melting Innermost Layer Mean Heat Transfer Index, HTI Performance Level Remark: <i>These results have been obtained by a test method intended solely to rank a material and are not necessarily applicable to actual fire condition.</i>	Trial 1	Trial 2	Trial 3	---	---
		13 No No 15 3	14 No 15 3	16 No		

Performance level in accordance with EN 407 §5.3

Performance level	Heat transfer index (HTI ₂₄) (s)
1	≥ 4
2	≥ 7
3	≥ 10
4	≥ 18

TEST METHOD	Test item(s)		Requirement	P/F	
	(S06)				
4 ●/■	Radiant heat (EN 407:2004 §5.4) Heat transfer t_{24} (s) Mean Performance Level :	Trial 1	Trial 2	---	---
		45.0	43		

Performance level in accordance with EN 407 §5.6

Performance level	Heat transfer t_{24} (s)
1	≥ 7
2	≥ 20
3	≥ 50
4	≥ 95

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TEST METHOD		Test item(s) (S07)	Requirement	P/F
4 ●/■	Small splashes of molten metal (EN 407:2004 §5.5) Trial	No. of droplets		
		1	>45	---
		2	>45	---
		3	>45	---
		4	>45	---
	Mean	>45	---	
	Performance Level :	4	---	---

Performance level in accordance with EN 407 §5.5

Performance level	Number of droplets
1	≥ 10
2	≥ 15
3	≥ 25
4	≥ 35

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- End of report -