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## **TEST REPORT**

Report No.: 02828-11

June 14, 2011

Page 1/3

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

Test(s)

EN 388 TESTS

**Product Category:** 

Product Type:

requested: Sample description: ...

AF 126-512

MICROTEX CUT-HEAT LONG K1030

Style / Article no.

: MICROTEXTH KEVLAR (CUT

HEAT)

GT-300511-1

Exported to

Ref no. Order no. PO-300511-1

Date of receipt of application form

: Jun 2, 2011

Date of receipt of

: Jun 2, 2011

sample

Testing period

: June 2, 2011 -

June 14, 2011

Number of sample(s)

: 3 PAIRS OF GLOVES

Service required

: REGULAR

1. Conclusion:

Supplier

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Abrasion resistance of glove	Level 2	(\$01)	
Blade cut resistance of glove	Level 3	(S02)	-
Tear resistance of glove	Level 4	(\$01)	ársani

The abrasion resistance got level 2; the blade cut resistance got level 3 and the tear resistance got level 4 according to EN 388 standard.

Approved by

Original signed

John Cheung Fai Cheong Assistant Laboratory Supervisor

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18/01 2013 13:48 FAX



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## **TEST REPORT**

Report No.: 02828-11



Page 3/3

4. Test Results :

	TEST METHOD	Test item(s) (S01)	Requirement	P/F
1	Abrasion resistance of glove (NF EN 388:2004 §6.1) Lowest value of four tests : Performance Level :	591 2	500	www.
2	Tear resistance of glove* (NF EN 388:2004 §6.3) Lowest value of four tests (N): Performance Level :	>200		

ON 16 GREATURE	TEST METHOD	Test it	The second secon	Requirement	P/F
3	Blade cut resistance of glove (NF EN 388:2004 §6.2)	Inde	k (l)		-
	Sequence	Test	Test 2		
	11	5.4	5.4	# W Y	
	2	4.4	4.7	77.89	
	3	5.4	6.8		1
	4 2 2 3 3	7.5	7.8	m	
	5 4 2 3	6.3	5.1		
	Average (I):	5.8	5.9		
	Lowest average value (1):	5.1	3	***	
	Performance Level:	3		407	

\*Table of Performance Level for Glove

Test Item	Performance Level					
and the second s	0**	1	2	3	4	5
Abrasion Resistance (NF EN 388:2004 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	9 2 2
Blade Cut Resistance (NF EN 388:2004 §6.2)	< 1.2	1.2	2.5	5.0	10.0	20.0
Fear Resistance (NF EN 388:2004 §6.3) Force (N) (minimum) Performance level 0 means the glove falls below the minimum	< 10	10	25	50	75	***

- End of report -

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Report No.: 02828-11



105.45 159 June 14, 2011

Page 2/3

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

Sample(s) (01)	iD	Size	Style/Art. No. MICROTEX <sup>TM</sup> KEVLAR (CUT HEAT)	Sub-sample(s)	Component(s) Glove	Colour Yellow
(01)	il	••	MICROTEXTM KEVLAR (CUT HEAT)	(a)	Giova	Yellow
(01)	iii		MICROTEXTM KEVLAR (CUT HEAT)	(a)	Glove	Yellow

Fremarks: (1) ID is used for identification in which the numbers of sample received are of the same arbote, 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)



1 0

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	Product Code:	
AF 116-512 (n	ormal), AF 146-512 (dotted)	
	6-512), 75% (AF146-512) AF146-512)	
***		
	Hazardous Component	
all chemicals and raw materials used are non toxic I non hazardous. The materials are: . Kevlar fiber, para-aramid polymer, CAS number 26125-61-1, Water, absorbed bulp wet-lap CAS number 7732-18-5, >96% of fiber		
	TLV	
, chioroethylene	N/A	
	PEL	
	N/A	
	Kevlar: >99% (AF11) PVC: 25% (AF11) ous.	

Section III: Physical Data	医胆囊菌毒毒菌毒菌	THE RESIDENCE OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR
Physical Appearance	Color(Optional) : golden yellow Surface Finishing : pvc dotted	
Powder Coating	N/A	y, g,
Boiling Point	N/A	
Vapour Pressure (mm Hg)	N/A	
Vapour Density (air = 1)	N/A	
Specific Gravity (water = 1	1.35-1.55 g/cc	N. diameter
Solubility in Water	Insoluble	
% Volatile by Volume	N/A	1 d -
Evaporation Rate	NIA	
Viscosity	N/A	
C Control of the Cont	1	

	The MICROTEX™ CUT-HEAT 350 Gloves are produced conforming to EN388 for
Conformity:	mechanical risks rating of 424X accordingly.
Section V: Fire and Explosion Ha	azard Data
Flashpoint	NIA
Auto ignition Temperature	NIA, PVC >388C
~Flammable Limits	N/A
Extinguishing Media	Water, Carbon Dioxide, Chemical Foam, Dry Powder and Fire Extinguishin Media may be used
Fire Fighting Procedures and Personal Protection	Use standard procedure for combustion material fires, including approved self-contained breathing apparatus
Fire and Explosion Hazards	Burning Kevlar" produces hazardous gases similar to those from wool. These are mostly carbon dioxide, nitrogen cydes and small amounts of hydrogen cyanide, ammonia, aldehydes, aliphatic hydrocarbons and other toxic gases, depending on conditions of burning.
Section VI: Health Hazard D	Data
Blo-Compatibility:	The chemical formulation of the gloves and surface substances does not contain any substances normally known to be harmful to the user to any person with whom the gloves get in contact.
Medical Conditions Generally Aggravated by Exposure	Kevlar Gloves are not expected to cause any adverse health effects. Skin: continual rubbing of fibers and fiber pieces on skin (as when under cuffs or collar, or when constantly handling fibrics) may cause irritation.
Section VII: Emergency ar	nd First Aid Procedures
	Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persist or develops later.  Inhalation: If large amounts of fumes, dust or fibers are inhaled, remove to fresh air. I breathing is difficult, give oxygen and call a physician. If persistent cough or other symptoms develop, get medical attention.  Skin: If fibers irritate the skin, wash with soap and water. Wash contaminated clothing before reuse. Use hand creams to sooth and moisten irritated skin. Get medical attention if irritation persist after contact stops.  Ingestion: Not a probable route. However, in case of gastro-intestinal distress following accidental ingestion, call a physician. User should be aware that components used in
Caution Statement	making all types of gloves may cause allergic reactions in some users.
Section VIII: Reactivity Data	
Stability	Stable
Condition To Avoid	Does not apply
ncompatibility	Gloves are intended to be used for mechanical risk protection. User should review
Materials to Avoid)	application guides and consider performing lab compatibility to specific applications
lazardous Decomposition	fiber decomposition temperature >400 C. At lower temperatures finish may boll off as
Products Hazardous Polymerization	fume, which should be vented

Steps to be taken in case material Is leaked or spilled	These products are solid articles and are not subjects to leak or spill.
Waste Disposal Method	Consult current local, state and federal regulations for proper disposal Methods. Since the fiber is essentially nonblodegradeable, it should not be flushed to surface waters or sanitary sewer systems.
Section X : Personal Protection is	nformation
Eye, Skin, Respiratory Protection	Not necessary under conditions of intended use
Ventilation	Not necessary under conditions of intended use

## Section XI: Special Precautions to be taken in handling and storage.

Do not store gloves where temperature may rise above 104°F(40°C) : store them in a cool and dry place. Open packages of gloves should be shielded from exposure to direct sun or fluorescent lighting to prevent discoloration, Gloves should not be stored in damp or high humidity areas.

The information contained herein is given in good faith and based on the data available to us, which is believed to be Correct as of the date prepared. However, Glove Tex Co., Ltd., makes no warranty, expressed or implied regarding the accuracy of these data. Users are advised to ascertain the suitability of the product before actual use. The application, use and processing of the products are beyond our control and therefore entirely at users own responsibility.