

TEST REPORT

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Report No.: S210706929_1

06 August 2021

APPLICANT: MISUMI (CHINA) PRECISION MACHINERY
TRADING CO., LTD. 米思米 (中国) 精密机械
贸易有限公司 (C41514)

11th Floor, Tower1, 128 Tianmu Road
West, Jina'an District
. SHANGHAI
CHINA

akihiro.caq8.kaku@misumi.co.jp

Date of receipt : 22 July 2021
Testing period : 27 July 2021
: 06 Aug. 2021

Buyer: ---

Sample description: 五级防割手套

Style / Article no. : MTGLV-LV5

Test(s) requested : ---

Service : REGULAR

Brand / Section : ---

Season : ---

End use : ---

Factory name : ---

Factory code : ---

For CE Marking : Yes

Previous report : ---

Product category : ---

Product type : ---

Test stage : FIRST TEST

Supplier name : ---

Exported to : ---

1. Conclusion:

	Tests description	Conformity
	EN 388	
1	Abrasion resistance: 2016	Level 4
2	Blade cut resistance	Level 5
3	Cutting resistance TDM	Level D
4	Tear strength resistance: 2016	Level 4
5	Puncture resistance: 2016	Level 3

Pass: requirements met Fail: requirements not met None: no requirement for this test N/A: not applicable

Approved by



Henry YAN 严滨
Laboratory Manager



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2. Sample(s) description assigned by laboratory:

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	GLOVE	palm	



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To declare the conformity to the requirement, the uncertainty of measurement, associated to the test results, has not been taken into account.



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3. GLOVE/

palm

	Method	Client Requirement	Unit	Result	Conformity
4. Blade cut resistance	EN 388 : 2003				
I1			Index	33.5	
I2			Index	38.0	
I3			Index	59.0	
I _{mean}			Index	43.5	
I1(2)			Index	34.0	
I2(2)			Index	28.3	
I3(2)			Index	36.4	
I _{mean} (2)			Index	32.9	
Performance level				5	
(+) 4.1. Abrasion resistance: 2016	EN 388:2016 + A1:2018				
Deviation from the test method				No	
used consumables - abrasive				Klingspor PL31B Grit 180	
used consumables - adhesive				3M Scotch	
Number of cycles at the hole detection				>8000	
Number of cycles at the hole detection (2)				>8000	
Number of cycles at the hole detection (3)				>8000	
Number of cycles at the hole detection (4)				>8000	
Performance level				4	
(+) 4.1. Cutting resistance TDM	EN ISO 13997:1999				
used consumables - blade				202101949	
Coefficient of variation			%	6.2	
Adjusted factor for blade with neoprene				0.99	
Normalized cutting stroke lengths			mm	16.3	
Normalized cutting stroke lengths (2)			mm	15.1	
Normalized cutting stroke lengths (3)			mm	26.1	
Normalized cutting stroke lengths (4)			mm	19.9	
Normalized cutting stroke lengths (5)			mm	25.8	
Mean normalized cutting stroke length			mm	20.6	

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	Method	Client Requirement	Unit	Result	Conformity
Cut load adjusted for a cut length of 20 mm Level Performance			N	15.5 Level D	
(+) 4.1. Tear strength resistance: 2016 Tear strength Tear strength (2) Tear strength (3) Tear strength (4) Performance level	EN 388:2016 + A1:2018		N N N N	>75 >75 >75 >75 4	
(+) 4.1. Puncture resistance: 2016 Puncture resistance Puncture resistance (2) Puncture resistance (3) Puncture resistance (4) Performance level	EN 388:2016 + A1:2018		N N N N	127 117 126 126 3	

END OF TEST REPORT

(+)CNAS accreditation

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T 23±2°C / RH 50±4%.

Table of Performance Level for Glove

Test Item	Performance Level					
	0 ^{##}	1	2	3	4	5
Abrasion Resistance (EN 388) Number of cycles (minimum)	<100	100	500	2000	8000	---
Blade Cut Resistance (EN 388) Index (I) (minimum)	<1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388) Force (N) (minimum)	<10	10	25	50	75	---
Puncture Resistance (EN 388) 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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Levels of performance for materials tested with EN ISO 13997

	Level A	Level B	Level C	Level D	Level E	Level F
6.3 TDM: cut resistance (N)	2	5	10	15	22	30

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中国认可
国际互认
检测
TESTING
CNAS L0273

检测报告

委托方名称: 米思米(中国)精密机械贸易有限公司

委托方联络信息: 上海市静安区天目西路 128 号嘉里不夜城企业中心第一座 11 楼

样品名称: 五級防割手套

型号规格: MTGLV-LV5-M

样品描述: 详见图片

样品接收状态: 正常

样品接收日期: 2019-11-06

检测日期: 2019-11-06~2019-11-13

检测地点: 元素成份分析实验室

报告签发日期: 2019-11-13

报告批准:

优尔鸿信检测技术(深圳)有限公司

报告审核:

报告制作:

王新新



LpSxlZGy

检测结果

1. 测试结果:

单位: mg/kg

No.	测试项目	MDL	测试结果					测试方法
			4.1	4.2	4.3	4.4	4.5	
1	镉/Cd	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	(1)
2	铅/Pb	1	N.D.	N.D.	N.D.	N.D.	N.D.	
3	汞/Hg	2	N.D.	N.D.	N.D.	N.D.	N.D.	(2)
4	六价铬/Cr(VI)	8	N.D.	N.D.	N.D.	N.D.	N.D.	(3)
5	一溴联苯/ Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	(4)
	二溴联苯/ Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	三溴联苯/ Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	四溴联苯/ Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	五溴联苯/ Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	六溴联苯/ Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	七溴联苯/ Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	八溴联苯/ Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	九溴联苯/ Nonabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	十溴联苯/ Decabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	多溴联苯总和/Sum of PBBs	—	N.D.	N.D.	N.D.	N.D.	N.D.	
6	一溴二苯醚/ Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	二溴二苯醚/ Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	三溴二苯醚/ Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	四溴二苯醚/ Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	五溴二苯醚/ Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	六溴二苯醚/ Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	七溴二苯醚/ Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	

检测结果

6	八溴二苯醚/ Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	(4)
	九溴二苯醚/ Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	十溴二苯醚/ Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
	多溴二苯醚总和/ Sum of PBDEs	—	N.D.	N.D.	N.D.	N.D.	N.D.	
7	BBP	30	N.D.	N.D.	N.D.	N.D.	N.D.	(5)
8	DBP	30	N.D.	N.D.	N.D.	N.D.	N.D.	
9	DEHP	30	N.D.	N.D.	N.D.	N.D.	N.D.	
10	DIBP	30	N.D.	N.D.	N.D.	N.D.	N.D.	

测试方法:

- (1) Cd/Pb :样品处理及测试参考 IEC62321-5:2013 &US EPA6010D: 2018;用 ICP-OES 分析
- (2) Hg :样品处理及测试参考 IEC62321-4:2013+A1:2017 &US EPA6010D:2018;用 ICP-OES 分析
- (3) Cr(VI) :样品处理及测试参考 IEC62321-7-2:2017&US EPA7196A:1992; 用 UV-Vis 分析
- (4) PBBs/PBDEs:样品处理及测试参考 IEC62321-6:2015&US EPA 8270E:2018; 用 GC-MS 分析
- (5) BBP/DBP/DEHP/DIBP: 样品处理及测试参考 IEC62321-8:2017&US EPA 8270E:2018; 用 GC-MS 分析

备注:

- (1) N.D. = Not Detected (未侦测出) (<MDL)
- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit (方法侦测极限)
- (4) 样品图片见下页

分析人员:黄斌、温月

检测结果

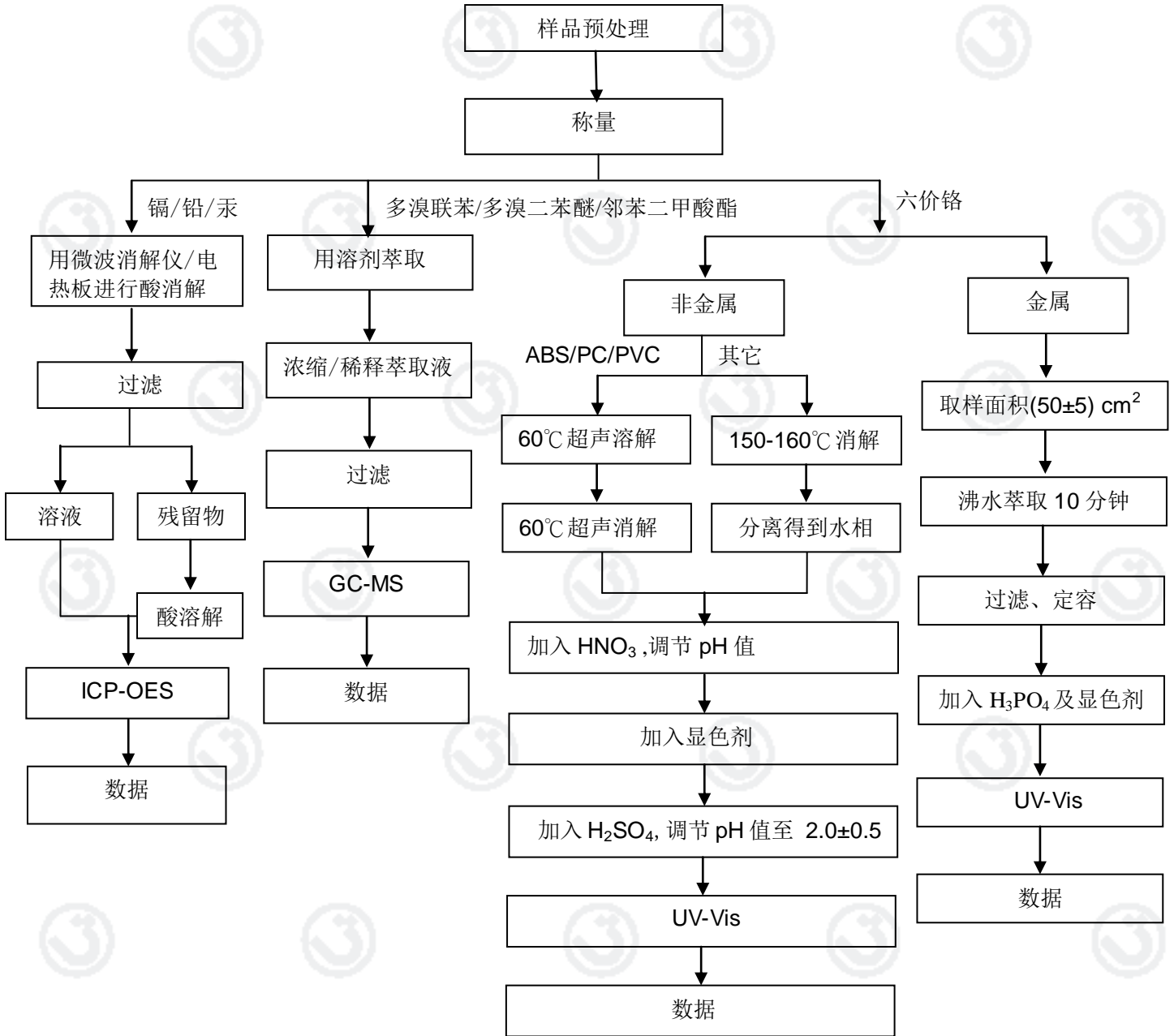
2. 样品图片:



检测结果

3.测试流程图:

RoHS 10 项 检测流程图



报告结束

注:

- 1.本实验室是中国合格评定国家认可委员会 (CNAS) 认可实验室, 证书编号为: CNAS L0273。
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