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Report No.: S201212609_1

07 December 2020

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APPLICANT: PROTECTIVE INDUSTRIAL PRODUCTS HONG KONG LTD., (C06226)

FLAT 1-11,
6/F KAR WAH INDUSTRIAL BUILDING
8 LEUNG YIP STREET
. YUEN LONG, N. T
HONG KONG

Date of receipt : 01 Dec. 2020
Testing period : 01 Dec. 2020
: 07 Dec. 2020

Buyer: ---

Style / Article no. : 16-939
Test(s) requested : ---
Service : REGULAR
Brand / Section : ---
Season : ---
End use : ---
Factory name : ---
Factory code : ---

Previous report : ---
Product category : ---
Product type : ---
Test stage : FIRST TEST
Supplier name : ---
Exported to : ---

1. Conclusion:

	Tests description	Conformity
	EN ISO 21420/EN 388/ANSI-ISEA 105	
1	Cutting resistance TDM	Level D
2	Dexterity	Level 5
3	Cutting resistance TDM	Level A4
4	Abrasion resistance (Taber)	Level 6

	Tests description	Conformity
5	Phthalates	Pass

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

Approved by



Henry YAN
Laboratory Manager



Yvonne MAO
Senior Analytical Chemical Engineer

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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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2. Sample(s) description assigned by laboratory:

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	GLOVE	Whole glove black/blue(white) nitrile(second coating blue nitrile(first coating)) white HPPE(high performance polyethylene)/steel wire/nylon/spandex) palm	



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3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
5.2. Dexterity	EN ISO 21420: 2020				
Smallest diameter of pin fulfilling test condition			mm	5.0	
Smallest diameter of pin fulfilling test condition (2)			mm	5.0	
Smallest diameter of pin fulfilling test condition (3)			mm	5.0	
Smallest diameter of pin fulfilling test condition (4)			mm	5.0	
Performance level				5	

black/blue(white) nitrile(second coating blue nitrile(first coating)) white HPPE(high performance polyethylene)/steel wire/nylon/spandex) palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Cutting resistance TDM	EN ISO 13997:1999				
used consumables - blade				Lot no.:3843-58-2020	
Coefficient of variation			%	8.3	
Adjusted factor for blade with neoprene				1.00	
Normalized cutting stroke lengths			mm	5.8	
Normalized cutting stroke lengths (2)			mm	34.6	
Normalized cutting stroke lengths (3)			mm	7.0	
Normalized cutting stroke lengths (4)			mm	5.3	
Normalized cutting stroke lengths (5)			mm	14.3	
Mean normalized cutting stroke length			mm	13.4	
Cut load adjusted for a cut length of 20 mm			N	18.2	
Level Performance				Level D	
(+) 5.1.1. Cutting resistance TDM	ASTM F2992 /F2992M - 15				
Correction factor of the sharp edge of the blade with the neoprene				1.04	
Load for a distance of 20 mm cut			g	1824	
Performance level				Level A4	
● 5.1.4. Abrasion resistance (Taber)	ASTM D 3389: 2010				

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	Method	Client Requirement	Unit	Result	Conformity
Type of abrasive wheel				H-18	
Loading used for the test				1000g	
Number of abrasion cycles to failure (test endpoint)			cycles	>20000	
Performance level				Level 6	
Phthalates	CEN ISO TS 16181 : 2011				Pass
BBP . Butyl benzyl phthalate		<1000	mg/kg	<25	
DBP . Di-butyl phthalate		<1000	mg/kg	<25	
DEHP . Di-(2-ethylhexyl) phthalate		<1000	mg/kg	<25	
DIBP . Di-isobutyl phthalate		<1000	mg/kg	<25	

END OF TEST REPORT

●: The test was carried out by external accredited laboratory, not within their accreditation scope.

Table of Performance Level for Glove

Test Item	Performance Level					
	0##	1	2	3	4	5
Finger dexterity (EN ISO 21420) Smallest diameter of pin fulfilling test conditions (mm)	---	11.0	9.5	8.0	6.5	5.0

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

Classification Table for Cut Resistance (ANSI-ISEA 105)

Level	Weight (grams) needed to cut through material with 20 mm of blade travel
A1	>=200
A2	>=500
A3	>=1000
A4	>=1500
A5	>=2200
A6	>=3000
A7	>=4000
A8	>=5000
A9	>=6000

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**Classification Table for Abrasion Resistance
(ANSI-ISEA 105)**

Level (tested at 500 g load)	Abrasion cycles to fail
0	<100
1	>=100
2	>=500
3	>=1000
Level (tested at 1000 g load)	
4	>=3000
5	>=10000
6	>=20000

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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