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06 February 2023

TEST REPORT

Report No.: S230100514_1

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APPLICANT: RAJA INTERNATIONAL GENERAL TRADING

(FZE) (C39230)

PO BOX 123618, A2-89, SAIF ZONE,

SHARJAH UAE 123618 SHARJAH UNITED ARAB EMIRATES

Date of receipt :19 Jan. 2023

Testing period : 25 Jan. 2023

:06 Feb. 2023

Sample description: ISU RIG-SHIELD ANTI -IMPACT GLOVES

Reference no. : ISU4544EP
Style / Article no. : ISU4544EP

Test(s) requested :-

Buyer: --

Service : REGULAR Previous report :—
Brand / Section : ISHIELDU Product category :—
Season :— Product type :—

End use :-- Test stage :FIRST TEST

Factory name :-- Supplier name :-- Exported to :--

1. Conclusion:

	<u>Tests description</u>	<u>Conformity</u>
	EN 388:2016+A1:2018	
1	Abrasion resistance: 2016	Level 4
2	Cut resistance: 2016	Level 3
3	Cutting resistance TDM	Level F
4	Tear strength resistance: 2016	Level 4
5	Puncture resistance: 2016	Level 2
6	Impact protection of knuckles	Pass

	Tests description	Conformity
	ISO 21420:2020	
7	pH - Textile (KCl solution)	Pass
8	Aromatic amines derived from azo colorants	Pass
9	Dimethylformamide (DMF/DMFo/DMFa)	Pass
10	Polycyclic Aromatic Hydrocarbons (8)	Pass
11	Dexterity	Level 5
12	XRF screening	Pass
13	XRF screening (Tin)	Pass
14	Phthalates	Pass

 $\underline{\textit{Pass}} : \textit{requirements met} \qquad \underline{\textit{Fail}} : \textit{requirements not met} \qquad \underline{\textit{None}} : \textit{no requirement for this test} \qquad \underline{\textit{N/A}} : \textit{not applicable}$

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Approved by

4.

Henry YAN 严滨

Laboratory Manager

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Tony SHU 東永玮 Technical Supervisor for Chemical Lab







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2. Sample(s) description assigned by laboratory:

1 PALM - BLACK (YELLOW+WHITE) / NITRILE (HPPE (HIGH PERFORMANCE POLYETHYLENE / NYLON/SPANDEX/GLASS FIBER)

2 PALM REINFORCEMENT - WHITE POLYESTER/WHITE PU FOAM/WHITE EVA

3 BACK - YELLOW+WHITE/HPPE (HIGH PERFORMANCE POLYETHYLENE) / NYLON/SPANDEX/GLASS FIBER

4 BACK REINFORCEMENT - BLACK/YELLOW TPR (THERMOPLASTIC RUBBER)

5 CUFF - YELLOW+WHITE/HPPE(HIGH PERFORMANCE POLYETHYLENE)/NYLON/SPANDEX/GLASS FIBER/ELASTIC

6 BINDING - BLACK PU (POLYESTER BACKING)

7 THUMB CROTCH REINFORCEMENT - BLACK PVC (POLYESTER BACKING)

8 VELCRO - BLACK POLYESTER



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(FZE) (C39230)

3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.2. Dexterity	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	

palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance: 2016	EN 388:2016 + A1:2018				
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. Cut resistance: 2016	EN 388:2016 + A1:2018				
Deviation from the test method				No	
used consumables - canvas				LEM 6	
used consumables - blade				OLFA RB45	
C1				1.3	
T1				60.0	
1C1				26.7	
11				5.3	
C2				1.2	
T2				60.0	
1C2				21.4	

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C3 T3 C3 C4 C4 C5 C4 C4 C5 C5 C5 C5 C5 C5 C6 C5 C6 C7 C6 C7 C6 C7 C7 C8			 (FZE)	(C39230)	
C3 T3 C3 C4 C4 C5 C4 C4 C5 C5 C5 C5 C5 C5 C6 C5 C6 C7 C6 C7 C6 C7 C7 C8		Method	Unit	Result	Conformity
T3	12			6.3	
1C3 32.7 32.	C3			1.3	
13	Т3			60.0	
C4 1.3 74 60.0 104 32.7 14 4.5 C5 1.3 T5 60.0 105 25.3 15 5.5 Mean value of test piece 1 5.2 C1 bis 60.0 2C1 bis 60.0 2C1 bis 5.5 C2 bis 1.3 T2 bis 60.0 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 I3 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 5.5 C5 bis 1.4 T6 bis 60.0 2C5bis 28.8	1C3			32.7	
T4	13			4.5	
1C4 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	C4			1.3	
14	T4			60.0	
C5 T5 T5 T6	1C4			32.7	
T5 1C5 1C5 1S Mean value of test piece 1 C1 bis T1 bis C2 bis T1 bis C2 bis T2 bis T3 bis C3 bis T3 bis C4 bis T4 bis C4 bis T4 bis C4 bis T4 bis C5 bis T4 bis C5 bis T1 bis C6 bis T5 bis C6 bis T5 bis C6 bis T6 bis C6 bis T6 bis C6 bis T7 bis C6 bis T7 bis C6 bis T8 bis C7 bis T8 bis C8 bis T8	14			4.5	
1C5 25.3 15 5.5 Mean value of test piece 1 5.2 C1 bis 1.2 T1 bis 60.0 2C1 bis 5.5 C2 bis 1.3 T2 bis 60.0 2C2 bis 1.3 60.0 2C2 bis 1.3 60.0 2C2 bis 60.0 2C2 bis 60.0 60	C5			1.3	
15 5.5 Mean value of test piece 1 5.2 C1 bis 1.2 T1 bis 60.0 2C1bis 25.3 11 bis 5.5 C2 bis 1.3 T2 bis 60.0 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 13 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 1.4	Т5			60.0	
Mean value of test piece 1 C1 bis 1.2 T1 bis 60.0 2C1bis 15.5 C2 bis 15.5 C2 bis 15.5 C2 bis 16.0 2C2bis 18.0 19.0 1	1C5			25.3	
C1 bis C1 bis C2 c1bis C2 c1bis C2 c1bis C3 c2 bis C4 bis C5 c5 c5 c6	15			5.5	
T1 bis 2C1 bis 2C1 bis 31 bis 5.5 C2 bis 1.3 T2 bis 60.0 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 13 bis 60.0 2C3bis 31.7 13 bis 60.0 2C4 bis 4.6 C4 bis 4.6 C5 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.	Mean value of test piece 1			5.2	
2C1bis	C1 bis			1.2	
11 bis C2 bis C2 bis 1.3 T2 bis 60.0 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 13 bis 60.0 2C3bis 31.7 13 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 4.8 C5 bis 1.4 T5 bis 60.0 2C5bis 1.4 T5 bis 60.0 2C8bis 28.8	T1 bis			60.0	
C2 bis 1.3 T2 bis 60.0 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 I3 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 25.4 I4 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	2C1bis			25.3	
T2 bis 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 13 bis 4.6 C4 bis T4 bis 60.0 2C4bis 1.4 T5 bis C5 bis T5 bis C5 bis C	I1 bis			5.5	
2C2bis 2C2bis 30.4 12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 13 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 14 bis 5.5 C5 bis 1.4 T5 bis 2C5bis 30.4 4.8 60.0 4.8 60.0 4.8 60.0 4.6 60.0 4.6 60.0 4.6 60.0 4.6 60.0 4.	C2 bis			1.3	
12 bis 4.8 C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 I3 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 25.4 I4 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	T2 bis			60.0	
C3 bis 1.3 T3 bis 60.0 2C3bis 31.7 13 bis 4.6 C4 bis 1.4 T4 bis 60.0 2C4bis 25.4 I4 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	2C2bis			30.4	
T3 bis 2C3bis 31.7 13 bis 4.6 C4 bis T4 bis 2C4bis 1.4 T4 bis 25.4 14 bis C5 bis T5 bis 2C5bis 2C5bis 28.8	I2 bis			4.8	
2C3bis 13 bis 4.6 C4 bis T4 bis 60.0 2C4bis 14 bis 5.5 C5 bis T5 bis 2C5bis 2C5bis 28.8	C3 bis			1.3	
13 bis C4 bis T4 bis 60.0 2C4bis 14 bis 5.5 C5 bis T5 bis 2C5bis 2C5bis 28.8	T3 bis			60.0	
C4 bis 1.4 T4 bis 60.0 2C4bis 25.4 I4 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	2C3bis			31.7	
T4 bis 60.0 2C4bis 25.4 I4 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	I3 bis			4.6	
2C4bis 25.4 I4 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	C4 bis			1.4	
14 bis 5.5 C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	T4 bis			60.0	
C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	2C4bis			25.4	
C5 bis 1.4 T5 bis 60.0 2C5bis 28.8	I4 bis			5.5	
T5 bis 60.0 2C5bis 28.8	C5 bis				
2C5bis 28.8	T5 bis				
	2C5bis				
	I5 bis			5.0	

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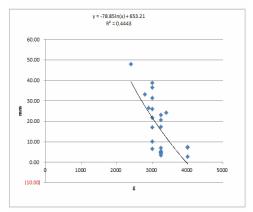
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(FZE) (C39230)

	(FZE) (C39230)					
	Method	Client Requirement	Unit	Result	Conformity	
Mean value of test piece 2				5.1		
Considered value				5.1		
Performance level				3		
Observation				First sequence Cn+1 higher than 3xCn, switch to EN13997		
(+) 4.1. Cutting resistance TDM	ISO 13997:1999					
used consumables - blade				202200369		
Coefficient of variation			%	1.0		
Adjusted factor for blade with neoprene				6.80		
Normalized cutting stroke lengths			mm	5.5		
Normalized cutting stroke lengths (2)			mm	20.6		
Normalized cutting stroke lengths (3)			mm	7.1		
Normalized cutting stroke lengths (4)			mm	23.1		
Normalized cutting stroke lengths (5)			mm	17.3		
Mean normalized cutting stroke length			mm	14.7		
Cut load adjusted for a cut length of 20 mm			N	30.1		
Level Performance				Level F		



(+) 4.1. Tear strength resistance: 2016	EN 388:2016 + A1:2018			
Tear strength		N	>75	
Tear strength (2)		N	>75	
Tear strength (3)		N	>75	
Tear strength (4)		N	>75	

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(FZE) (C39230)

	(122) (000200)						
	Method	Client Requirement	Unit	Result	Conformity		
Performance level				4			
(+) 4.1. Puncture resistance: 2016	EN 388:2016 + A1:2018						
Puncture resistance			N	108			
Puncture resistance (2)			N	98			
Puncture resistance (3)			N	85			
Puncture resistance (4)			N	89			
Performance level				2			

palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		7.1	
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8)	ISO 16190:2021				Pass
Benzo(a)anthracene		<1	mg/kg	<0.2	
Chrysene		<1	mg/kg	<0.2	
Benzo(b)fluoranthene/ Benz[e]acephenanthrylene		<1	mg/kg	<0.2	
Benzo(k)fluoranthene		<1	mg/kg	<0.2	
Benzo(a)pyrene/ Benzo[def]chrysene		<1	mg/kg	<0.2	
Dibenzo(a.h)anthracene		<1	mg/kg	<0.2	
Benzo(e)pyrene		<1	mg/kg	<0.2	
Benzo(j)fluoranthene		<1	mg/kg	<0.2	
+) XRF screening	ASTM F2617 – 15				Pass
Cd (Cadmium)		<100	ppm	<100	
XRF screening (Tin)	ASTM F2617 – 15				Pass
Sn (Tin)		<150	ppm	<150	
Phthalates	ISO 16181-1:2021				Pass
BBP . Butyl benzyl phthalate		<0.1	%	<0.0020	
DBP . Di-butyl phthalate		<0.1	%	<0.0020	
DEHP . Di-(2-ethylhexyl) phthalate		<0.1	%	<0.0020	
DIBP . Di-iso-butyl phthalate		<0.1	%	<0.0020	

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APPLICANT: RAJA INTERNATIONAL GENERAL TRADING

(FZE) (C39230)

palm reinforcement

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.8	

back

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.7	
4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (w/o extraction)				Pass
Accessible without fibre extraction		<30	mg/kg	<5	

back

	Method	Client Requirement	Unit	Result	Conformity
▲ 4.2. Impact protection of knuckles	EN 13594: 2015				Pass
The protector cover 4 phalanges				Yes	
Cracks, deterioration of the glove or the appearance of sharp edges				No	
Tear of the chamois leather				No	
Single result		≤ 9.0	kN	5.2	
Single result (2)		≤ 9.0	kN	5.5	
Single result (3)		≤ 9.0	kN	5.3	
Single result (4)		≤ 9.0	kN	5.8	
Mean transmitted force		≤ 7.0	kN	5.4	

cuff

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.8	
4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (w/o extraction)				Pass
Accessible without fibre extraction		<30	mg/kg	<5	

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(FZE) (C39230)

binding

	Method	Client Requirement	Unit	Result	Conformity
+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.4	
4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (combined extraction)				Pass
Accessible with fibre extraction		<30	mg/kg	<5	
Accessible without fibre extraction		<30	mg/kg	<5	
 4.2. Dimethylformamide (DMF/DMFo/DMFa) 	CTC in house				Pass
Dimethylformamide		<1000	mg/kg	614.3	
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8)	ISO 16190:2021				Pass
Benzo(a)anthracene		<1	mg/kg	<0.2	
Chrysene		<1	mg/kg	<0.2	
Benzo(b)fluoranthene/ Benz[e]acephenanthrylene		<1	mg/kg	<0.2	
Benzo(k)fluoranthene		<1	mg/kg	<0.2	
Benzo(a)pyrene/ Benzo[def]chrysene		<1	mg/kg	<0.2	
Dibenzo(a.h)anthracene		<1	mg/kg	<0.2	
Benzo(e)pyrene		<1	mg/kg	<0.2	
Benzo(j)fluoranthene		<1	mg/kg	<0.2	
+) XRF screening	ASTM F2617 – 15				Pass
Cd (Cadmium)		<100	ppm	<100	
Phthalates	ISO 16181-1:2021				Pass
BBP . Butyl benzyl phthalate		<0.1	%	<0.0020	
DBP . Di-butyl phthalate		<0.1	%	<0.0020	
DEHP . Di-(2-ethylhexyl) phthalate		<0.1	%	<0.0020	
DIBP . Di-iso-butyl phthalate		<0.1	%	<0.0020	

thumb crotch reinforcement

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass

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(FZE) (C39230)

	(FZE) (C39230)								
	Method	Client Requirement	Unit	Result	Conformity				
pH value		3.5< - <9.5		9.4					
4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (combined extraction)				Pass				
Accessible with fibre extraction		<30	mg/kg	<5					
Accessible without fibre extraction		<30	mg/kg	<5					
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8)	ISO 16190:2021				Pass				
Benzo(a)anthracene		<1	mg/kg	<0.2					
Chrysene		<1	mg/kg	<0.2					
Benzo(b)fluoranthene/ Benz[e]acephenanthrylene		<1	mg/kg	<0.2					
Benzo(k)fluoranthene		<1	mg/kg	<0.2					
Benzo(a)pyrene/ Benzo[def]chrysene		<1	mg/kg	<0.2					
Dibenzo(a.h)anthracene		<1	mg/kg	<0.2					
Benzo(e)pyrene		<1	mg/kg	<0.2					
Benzo(j)fluoranthene		<1	mg/kg	<0.2					
(+) XRF screening	ASTM F2617 - 15				Pass				
Cd (Cadmium)		<100	ppm	<100					
Phthalates	ISO 16181-1:2021				Pass				
BBP . Butyl benzyl phthalate		<0.1	%	<0.0020					
DBP . Di-butyl phthalate		<0.1	%	<0.0020					
DEHP . Di-(2-ethylhexyl) phthalate		<0.1	%	<0.0020					
DIBP . Di-iso-butyl phthalate		<0.1	%	<0.0020					

velcro

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCI solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.4	
4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (combined extraction)				Pass
Accessible with fibre extraction		<30	mg/kg	<5	
Accessible without fibre extraction		<30	mg/kg	<5	

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(FZE) (C39230)

END OF TEST REPORT

(+)CNAS accreditation

- ▲: The test was carried out by external accredited laboratory under their accreditation scope.
- •: The test was carried out by external accredited laboratory, not within their accreditation scope.

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T $23\pm2^{\circ}$ C / RH $50\pm4\%$.

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			
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

Levels of performance for materials tested with EN ISO 13997

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

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