





中国认可 国际互认 检测 TESTING **CNAS L2210**

Test Report

Report No.: PL 2002021

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GUANGZHOU JULONG SPORTS PRODUCTS CO., LTD Applicant:

Address of Applicant: 4th Floor, No.1 Yongfu RD, Yongfa Ave, Xinhua, Huadu, Guangzhou, China

Date of Receiving Samples: Feb 20, 2020

Feb 21, 2020 to Feb 27, 2020 Testing Period:

Description of Samples

The submitted sample and sample information was/were submitted and identified by/on behalf of client;

Sample Name: **Safety Goggles**

Model No.: JL-08 **Device Type:** Goggles Quantity **17 PCS** Material: **Plastic** Scale No.: Clear Z87+ **Impact Mark:**

Lenses Type: Clear, Plano Frame Color: Clear & Black

Lenses Color: Clear

Manufacturer/Brand: Not provided Not provided Buyer: **Dimension:** Not provided P/O. No.: Not provided **Country of Origin:** Not provided **Country of Destination:** Not provided

Tests Conducted: As requested by the applicant, refer to attached page(s) for details.

> **TESTING** Issued by stamp

To be continued

Date of Issued:

Feb 28, 2020

For and on behalf of:

Shenzhen Precision Eyewear

Testing & Inspection Services Co., Ltd.

Manager: WenHua Li

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Conclusion:

Tested Samples

Submitted Samples

Standard

ANSI / ISEA Z87.1 - 2015 Occupation and Educational

Personal Eye and Face Protection Devices, only test the related parameters of cover lenses, please refer to

"Tests Conducted Summary" for details

Pass

Result

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Tests Conducted Summary

CLAUSES		REQUIREMENTS	RESULTS
5. General R	equirements		2
5.1 Optical Re	quirements		
5.1.1	Optical Quality		Р
5.1.2	Luminous Trans	smission (Applicable for clear lenses)	Р
5.1.3	Haze (Applicabl	e for clear plano lenses)	P
5.1.4		er, Astigmatism, Resolving Power, Prism and Prism lano Protectors (Exempt from the requirement for the filter 9 or higher.)	Р
5.2	Physical Requir	ements	Р
5.2.1	Drop Ball Impac	Р	
5.2.2	Ignition (exclusi	Р	
5.2.3	Corrosion Resis	NA (No Metal Part	
5.2.4	Minimum Cover	Р	
5.3	Markings		NR
5.4 Other Req	uirements	V /	//
5.4.1	exclude spheric	s: The vented portion shall be such that the openings all objects 1.5mm (0.06 in.) in diameter or greater and shall aight-line passage.	NA
5.4.4	Frames for Rep detailed specific technique and r	NA	
5.5 Replaceab	le Lenses		
5.5.1	Goggles	Round lenses measuring 50 mm shall have a dimensional tolerance of ± 0.2 mm;	NA
	(a)	Rectangular lenses measuring 51 x 108 mm shall have a dimensional tolerance of ± 0.8 mm.	NA
5.5.2	Welding Helmet	s and Hand shields	NA

Remark: P = Pass; F = Fail; NA = Not Applicable, NR=Not Required; X=Checked;

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Tests Conducted

CLAUSES	REQUIREMENTS	RESULTS
6. Impact Pro	otector Requirements	
6.1.1	Protectors Marked for Impact Rated Protectors: Impact-rated protectors and replaceable components shall marking requirements in this standard	(No Claimed)
6.1.2	Frames and Shells: Frames shall meet with high mass impact and high velocity i (Exempt from the penetration requirement.)	mpact NA (No Claimed)
6.1.3	Lateral (Side) Coverage	Р
6.2 Impact R	equirements	
6.2.2	High Mass Impact	Р
6.2.3	High Velocity Impact	Р
6.2.4	Penetration Test (lenses only)	P (1)
7. Optical Ra	adiation Protector Requirements	
7.1	Protectors with Clear lenses	NA
7.2 Protector	providing Filtrations of Optical Radiation	A SE
7.2.1.2	Visible Light Filters (Refer to ANSI Z80.3-2010)	NA (Clear Lenses)
7.2.1.3	Variations in Luminous Transmittance	NA (Clear Lenses)

Remark: P = Pass; F = Fail; NA = Not Applicable, NR=Not Required; X=Checked;

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Test Results

Optical Quality —Clause 5.1.1 & 9.1/Physical Requirements —Clause 5.2

Comple No	D	efects	Comment	Dogulto
Sample No.	Observed	Absent	Comment	Results
2002021-01		X	_ =	Р

Requirements:

- 1. Optical Quality: Protector lenses shall be free of striae, bubbles, waves and other visible defects which would impair their optical quality.
- 2. Physical Requirements: Protectors shall be free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

Luminous Transmission (Apply for Clear Plano Lenses only) —Clause 5.1.2 & 7.1 &9.2

Commis No	Lum	Daguita		
Sample No.	Left	-4	Right	Results
2002021-01	89.7		90.7	Р

Requirements:

Clear plano, reader, magnifier and prescription lenses shall have a luminous transmission not less than 85%.

Measurement Uncertainty (if necessary):

Haze (Apply for Clear Plano Lenses only) —Clause 5.1.3&9.3

Clear plano lens shall exhibit not more than 3% haze.

Sample No.	Haze (%)				
	Left	Right		Results	
2002021-01	0.7	0.4	7.75	Р	

Measurement Uncertainty (if necessary):

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Test Results

Refractive Power, Astigmatism, Resolving Power —Clause 5.1.4& 9.4

Sample No.	Location	Spherical Power (D)	Astigmatic Power (D)	Resolving Power	Results
2002021 01	Left	0.03	0.01	More than 20	
2002021-01	Right	0.00	0.00	More than 20	Р
	Spectacle / Reader	+/- 0.06	≦0.06	Pattern 20	
Specification	Goggle /Full-facepiece respirator	+/- 0.06	≦0.06	Pattern 20	(4)
Specification	Faceshield windows/ Loose- fitting respirator	No req	uirement	Pattern 20	
	Welding helmet lenses	+/- 0.06	≦0.06	Pattern 20	

Measurement Uncertainty (if necessary):

Remark: The tolerance on refractive power and astigmatism power are not requirement for faceshield windows;

Prismatic Power and Prism Imbalance for Plano Protectors —Clause 5.1.4 & 9.4

		Horizontal In	nhalanco (A)	Driem	atic (Δ)	
Sample No.	Vertical Imbalance (△)	Base Out	Base In	Left	Right	Results
2002021-01	0.01		0.21	0.05	0.14	Р
Requirement:						
Spectacle/Reader	≦0.25	≦0.50	≦0.25	≦().50	-0
Goggle/Full- facepiece respirator	≦0.125	≦0.50	≦0.125	≦0.25		
Faceshield windows / Loose- fitting respirator	≦0.37	≦0.75	≦0.125	≦0.37		
Welding helmet lenses	≦0.25	≦0.75	≦0.25	≦0	.50	

Measurement Uncertainty (if necessary):

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Test Results

Drop Ball Impact Resistance —Clause 5.2.1 & 9.6

	Impact	Defects		Defects					Deculte
Sample No.	Position	Observed	Absent		Comment		Results		
2002021-03	Left	-4	X	4			Р		
2002021-04	Right		Х				Р		
2002021-05	Left	A.	X		7		Р		
2002021-06	Right	Y)	Х		45		Р		

Requirements:

A complete device shall fail if any of the following occurs:

- Lens(Lens only) fracture
- piece fully detached from the inner surface
- penetration of the rear surface
- lens not retained

Ignition — Clause 5.2.2 & 9.7

Comple No.	Continued c	ombustion	Comment A	Results	
Sample No.	Sample No. Observed Absent	Absent	Comment		
2002021-17	-110	x	-50	Р	

Requirements:

The frame shall be no continued combustion after withdrawal of the test rod.

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Test Results

Minimum Coverage Area —Clause 5.2.4

Sample No.	Type	Test	Minim Coverag		Comment	Results	
	4	Position	Pass	Fail	-0		
2002004 02	۸ مار راله	Left	Х			Р	
2002021-02	Adult	Right	Х		- CST	Р	

Requirements:

- 1. For adult: the frame, lens housing or carrier and lens(es) shall cover in plane view an area of not less than 40 mm in width and 33 mm in height (elliptical) in front of each eye, centered on the geometrical center of the lens.
- 2. For children: the frame, lens housing or carrier and lens(es)shall cover in plane view an area of not less than 34mm in width and 28 mm in height (elliptical), centered on the geometrical center of the lens.

High Mass Impact Test —Clause 6.2.2&9.11

Impact	Impact	Defe	ects	Comment	Results	
Sample No.	Position	Observed	Absent	Comment	Results	
2002021-03	Left		X	FX / - 1 3	Р	
2002021-04	Right		Х	1 W - Z N	Р	
2002021-05	Left		X		P	
2002021-06	Right		Х	2	P	

Requirements:

A complete device shall fail if any of the following occurs:

- piece fully detached from the inner surface
- fracture
- penetration of the rear surface
- lens not retained

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Test Results

High Velocity Impact Test (Impact-rate protector) —Clause 6.2.3&9.12

0 I - N -			Defects				
Sample No.	ımı	pact Position	Observed	Absent	Co	mment	Results
2002021-07		Center		X			Р
2002021-08	Left	30° Temporal		Х			Р
2002021-09	5	Center		Х			Р
2002021-10	Right	30° Temporal	-0	Х	-00		-P
2002021-11	90° abo	ove 10mm		Х			
2002021-12	90° bel	ow 10mm		Х			
equirements:		-4	Table: High Ve	locity Impact	Testing		
-		ail if any of the				Minimum V	elocity(m/s)
ollowing occurs			Device Type			Ø6.35mm	Ø6.00mr
- /2/11/11	acned troi	m the inner surface			steel ball	steel ba	
fracture	41		Welding heln	nets	A.	45.7	50.9
 penetration of the rear surface lens not retained any piece adhering to the contact paste, 		Spectacles, Reader, Magnifiers			45.7	50.9	
		Goggles, Full faceshieldsrespirators			76.2	84.7	
or observes contact paste on the projectile or complete device.		Faceshield / Loose-fitting respirator		91.4	101.5		

Plastic Lens Penetration Test (for Plastic lenses only) —Clause 6.2.4&9.13

Sample No.	Impact Position	Defects			
		Observed	Absent	Comment	Result
2002021-13	Left		X A	(-a)	Р
2002021-14	Right		Х		Р
2002021-15	Left		X		Р
2002021-16	Right		X		Р

Requirements:

A complete device shall fail if any of the following occurs:

- piece fully detached from the inner surface
- fracture
- penetration of the rear surface
- lens not retained

----- Report End -----

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