



Test Report

Report No.: PL 2004375

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Applicant: Shenzhen Xiaohongbao Technology (Shenzhen) Co., Ltd.

Address of Applicant: Second Floor, Yahua Industrial Park, No. 24 Shapu Guangjin Road, Songgang Street, Baoan District, Shenzhen, China

Factory: Shenzhen Xiaohongbao Technology (Shenzhen) Co., Ltd.

Address of Factory: Second Floor, Yahua Industrial Park, No. 24 Shapu Guangjin Road, Songgang Street, Baoan District, Shenzhen, China

Date of Receiving Samples: Apr 14, 2020

Testing Period: Apr 14, 2020 to Apr 17, 2020

Description of Samples

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

Sample Name: Protective Glasses

Type: Spectacles Goggles Face Shields

Ocular Type: Organic Ocular Inorganic lenses

Model No.: XHBG-01,XHBG-02,XHBG-03

Quantity: 10 Pairs

Material: Plastic

Color: Black/Clear

Supplier: Not provided

P.O. No.: Not provided

Brand: Not provided

Buyer: Not provided

Goods exported to: Not provided

Country of Origin: China

Results/Remarks: Please refer to the following page(s).

Issued by stamp



To be continued

Date of Issued: Apr 17, 2020

For and on behalf of:
Shenzhen Precision Eyewear
Testing & Inspection Services Co., Ltd.

Manager: WenHua Li

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Tests Conducted: As requested by the applicant, refer to attached pages for details.

Conclusion:

Tested Samples

Requested Standard

Result

Submitted Samples

**GB 14866-2006 The specification for personal
eye-protector, exclude:**

Pass

- Clause 7 Packaging, label, storage and transportation

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Tests Conducted Summary

Test Items		Clause	Results
Material		5.1	See remark #2
Construction		5.2	P
Headbands		5.3	P
Ocular specifications		5.4	P
Quality of ocular Material and surface		5.5	P
Refractive powers	Spherical powers	5.6.1	P
	Astigmatic powers		P
	Prismatic powers	5.6.2	P
Luminous transmittance		5.6.3	P
Impact resistance	Oculars	5.7.1, 6.2.1	P
	Eye-Protector	5.7.2, 6.2.2	P
Thermal endurance properties		5.8, 6.3	P
Resistance to corrosion (apply for all metal parts only)		5.9, 6.4	NA (No metal parts)
Protection against high-speed particles		5.11, 6.6	P
Protection against chemical droplets		5.13, 6.8	P
Packaging, label, storage and transportation		7	NR

Remarks: 1. P = Pass; F = Fail; NA = Not Applicable; NR=Not require, X=Checked.

- The applicant's attention was drawn that the manufacturer should not use the frame materials which are known to cause irritation, allergic or toxic reaction during wear in a normal state of health against significant proportion of users.

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Test Result

Construction — Clause 5.2/ Headbands— Clause 5.3

Sample No.	Defects of construction		Headbands				Comment	Result(s)
			Width		Adjustable			
	Observed	Absent	Pass	Fail	Yes	No		
2004375-01		X	X		X		--	P

Requirements:

- Construction: Eye-Protectors shall be free of projections, sharp edges or other defects which are likely to cause discomfort during use.
- Headbands: shall be at least 10mm wide over any portion which may come into contact with the wearer's head, and shall be adjustable or self-adjusting;

Ocular specifications — Clause 5.4

Sample No.	Specifications	Size	Comment	Result(s)
2004375-01	Monocular	Meet	--	P

Requirements:

- Monocular: Length×Width shall be not less than 105mm×50mm;
- Single ocular of both eyes:
 - For round ocular: diameter shall be not less than 40mm;
 - For mounted ocular: shall be not less than 30mm in the optical horizontal reference length and 25mm in the vertical height in front of each eye.

Quality of material and surface — Clause 5.5

Sample No	Defects		Comment	Result(s)
	Observed	Absent		
2004375-01		X	--	P

Requirements:

The oculars shall be smooth, free from any significant defects likely to impair vision in use, such as scratches, corrugation, bubbles and inclusions.

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Test Result

Refractive powers— Clause 5.6.1

Thermal endurance properties — 5.8, 6.3

Sample No.	Items		Measured Value			Max. difference	Result(s)
			C*	A1*	A2*		
1. Initial condition							
2004375-01	Spherical Power (D)	Left Ocular	-0.01	-0.02	-0.03	-0.02	P
		Right Ocular	-0.02	0.00	-0.03	-0.03	P
	Astigmatic Power (D)	Left Ocular	+0.03	+0.04	+0.04	0.01	P
		Right Ocular	+0.05	+0.02	+0.02	0.03	P
2. After heat test							
2004375-01	Spherical Power (D)	Left Ocular	0.00	-0.01	-0.02	-0.02	P
		Right Ocular	-0.01	+0.01	0.00	-0.02	P
	Astigmatic Power (D)	Left Ocular	+0.04	+0.04	+0.04	0.00	P
		Right Ocular	+0.06	+0.03	+0.02	0.04	P
Requirements:							
The Refractive powers difference of the lens is $^{+0.05D}_{-0.07D}$.							

Measurement Uncertainty (if necessary):

Remark: *C= Optical central point, A1~A2*= any points in the optical central scope, the same as below.

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Test Result

Prismatic powers — Clause 5.6.2

Thermal endurance properties — 5.8, 6.3

<input checked="" type="checkbox"/> Plane oculars <input type="checkbox"/> Curved oculars		Measured Value, Δ			Max. difference		Result(s)	
Sample No.	Items	C*	A1*	A2*	For ocular	For both oculars		
1. Initial condition								
2004375-01	Prismatic powers in horizontal	Left Ocular	+0.06	+0.05	+0.06	0.01	0.01	P
		Right Ocular	+0.07	+0.08	+0.08	0.01		P
	Prismatic powers in vertical	Left Ocular	0.22	0.23	0.21	0.02	0.01	P
		Right Ocular	0.23	0.23	0.21	0.02		P
2. After heat test								
2004375-01	Prismatic powers in horizontal	Left Ocular	+0.05	+0.05	+0.05	0.00	0.02	P
		Right Ocular	+0.07	+0.08	+0.08	0.01		P
	Prismatic powers in vertical	Left Ocular	0.22	0.22	0.22	0.00	0.01	P
		Right Ocular	0.23	0.24	0.22	0.02		P
Requirements: For the Refractive powers difference: 1. Plane oculars: shall be less than 0.125Δ ; 2. Curved ocular: shall be less than 0.125Δ between any points in the optical central scope and optical center; 3. For both oculars: shall be less than 0.18Δ .								

Measurement Uncertainty (if necessary):

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Luminous transmittance— Clause 5.6.3

Thermal endurance properties — 5.8, 6.3

Sample No.	Items		Measured Value			Max. difference	Result(s)
			C*	A1*	A2*		
1. Initial condition							
2004375-01	Luminous transmittance	Left Ocular	92.4	92.4	91.8	-0.6	P
		Right Ocular	92.4	92.4	92.1	-0.3	P
2. After heat test							
2004375-01	Luminous transmittance	Left Ocular	91.5	91.5	91.4	-0.1	P
		Right Ocular	92.0	92.0	91.5	-0.5	P
Requirements:							
1. The luminous transmittance of clear ocular shall be not less than 89%							
2. Difference in luminous transmittance:							
			Luminous transmittance		Permissible difference (%)		
Less than (%)		Up to (%)					
100		17.9			±5		
17.9		8.5			±10		
8.5		0.44			±10		

Measurement Uncertainty (if necessary):



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Test Result

Impact resistance— Clause 5.7, 6.2.1, 6.2.2

Sample No.	Test Temp. (°C)	Location		Defects		Comment	Result(s)
				Observed	Absent		
2004375- (02~03)	55±2	Left	Central point		X	--	P
		Right	Central point		X	--	P
		Bridge			X	--	P
2004375- (04~05)	-5±2	Left	Central point		X	--	P
		Right	Central point		X	--	P
		Bridge			X	--	P

Requirements:

The following defects shall not occur:

1. Ocular fracture
2. Ocular deformation
3. Frame fracture

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Protection against high-speed particles — Clause 5.11, 6.6

Impact speed of ball: 45 ₀ ^{+1.5} m/s					
Sample No.	Impact Position	Defects		Comment	Result(s)
		Observed	Absent		
2004375-06	Left ocular central point		X	--	P
2004375-07	Right ocular central point		X	--	P
2004375-08	Left ocular central point		X	--	P
2004375-09	Right ocular central point		X	--	P
Requirements: The filter shall not fracture.					

Protection against chemical droplets — Clause 5.13, 6.8

Sample No.	Shows a Crimson		Comment	Result(s)
	Observed	Absent		
2004375-10		X	--	P
Requirements: Ski goggles shall be considered to be satisfactory if no spray solution penetrate ski goggles.				

----- End of Test Report -----

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