



Shenzhen Precision Eyewear
Testing & Inspection Services Co., Ltd.



中国认可
国际互认
检测
TESTING
CNAS L2210

Test Report

Report No.: PL 2004697

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Applicant: Cangnan Longgang Koole Paper & Plastic Factory
Address of Applicant: No 140, Hongcheng Road, Longgang Town, Wenzhou City, Zhejiang, China
Date of Receiving Samples: Apr 22, 2020
Testing Period: Apr 23, 2020 to Apr 24, 2020

Description of Samples

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

Sample Name: Protective Face Shield
Type: Face Shield
Ocular Type: ☒ Organic Ocular ☐ Inorganic lenses
Model No.: CNKL-6-10086
Quantity: 6 Pairs
Material: Plastic
Color: Transparent
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).



To be continued

Issued by stamp

Date of Issued: Apr 24, 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

Submitted Samples

Requested Standard

GB 14866-2006

The specification for personal
eye-protector, exclude:

- Clause 7

Packaging, label, storage and transportation

Result

Pass

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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	NA
	Eye-Protector (Remark: Oculars deformation)	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	NA (No Claim)
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.

2. 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		
2004697-01		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)
2004697-01	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		
2004697-01		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							
2004697-01	Spherical Power (D)	Left Ocular	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00	P
	Astigmatic Power (D)	Left Ocular	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00	P
2. After heat test							
2004697-01	Spherical Power (D)	Left Ocular	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00	P
	Astigmatic Power (D)	Left Ocular	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00	P
Requirements:							
The Refractive powers difference of the lens is $\begin{matrix} +0.05D \\ -0.07D \end{matrix}$.							

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								
2004697-01	Prismatic powers in horizontal	Left Ocular	0.00	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00		P
	Prismatic powers in vertical	Left Ocular	0.00	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00		P
2. After heat test								
2004697-01	Prismatic powers in horizontal	Left Ocular	0.00	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00		P
	Prismatic powers in vertical	Left Ocular	0.00	0.00	0.00	0.00	0.00	P
		Right Ocular	0.00	0.00	0.00	0.00		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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Test Result

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							
2004697-01	Luminous transmittance	Left Ocular	89.6	89.6	89.3	-0.3	P
		Right Ocular	90.0	90.0	89.9	-0.1	P
2. After heat test							
2004697-01	Luminous transmittance	Left Ocular	89.6	89.8	89.6	+0.2	P
		Right Ocular	89.7	89.7	89.6	-0.1	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		
2004697- (02~03)	55±2	Left	Central point		X	--	P
		Right	Central point		X	--	P
		Bridge			X	--	P
2004697- (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

Protection against chemical droplets — Clause 5.13, 6.8

Sample No.	Shows a Crimson		Comment	Result(s)
	Observed	Absent		
2004697-06		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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