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CNAS L10999

Test Report

Number： SHAH01680202

Applicant： GUANGZHOU LVQI OUTDOOR PRODUCTS CO.,LTD
NO. 2, ALLEY 1, LANE 11, XINMIN, SHILING TOWN, HUADU DISTRICT, GUANGZHOU

Date： 29 Apr, 2024

Sample Description：

One (1) style of submitted sample said to be ：

Item Name	：	Ski goggles
Item No.	：	FJ037.
Manufacturer Name	：	Guangzhou LVQI OUTDOOR PRODUCTS CO.,LTD.
Country of Origin	：	China.

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Tests Conducted：

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

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Conclusion:

Tested sample:	Requirement:	Result:
Submitted samples	EN ISO 18527-1:2022 Eye and face protection for sports use — Part 1: Requirements for downhill skiing and snowboarding goggles Excluding: - Clause 4.1 - Physiological compatibility - Clause 15 - Marking and information to be supplied by the manufacturer	See details enclosed

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To be continued

Prepared And Checked / Authorized By：

kael. Ye

Kael Ye
Engineer

INTERTEK TESTING SERVICES LTD. ZHEJIANG, WENZHOU BRANCH
浙江天祥质量技术服务有限公司温州分公司
检验检测专用章

Intertek Testing Services Ltd. Zhejiang, Wenzhou Branch
浙江天祥质量技术服务有限公司温州分公司

Room 501, Floor 5, Zhejiang Glasses Industry Innovation Service Complex, No. 239, Haoxin Road, Louqiao Street, Ouhai District, Wenzhou City, Zhejiang Province
浙江省温州市瓯海区娄桥街道豪新路 239 号省眼镜产业创新服务综合体 5 楼 501 室

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Tests Conducted

Requirements for downhill skiing and snowboarding goggles

Test standard: EN ISO 18527-1:2022 Eye and face protection for sports use — Part 1: Requirements for downhill skiing and snowboarding goggles.

Number of samples tested: Five (5) pairs.

Note:

(1) Physiological compatibility

Goggles shall be designed and manufactured in such a way that when used under the conditions and for the purposes intended, they will not compromise the health or safety of the wearer. The risks posed by substances leaking or evaporating from the goggles that can come into prolonged contact with the wearer shall be reduced by the manufacturer to within the limits of any applicable regulatory requirement.

Special attention shall be given to substances that are allergenic, carcinogenic, mutagenic or toxic to reproduction.

Substances recommended for cleaning, maintenance or disinfection shall be known to be unlikely to have any adverse effect upon the wearer, when applied in accordance with the instructions given in the information to be supplied by the manufacturer.

Manufacturers/suppliers shall perform an appropriate risk analysis on potentially harmful substances contained in the goggles such that, when the goggles are used under the conditions and for the purposes intended, the health (and safety) of the wearer shall not be compromised.

(2) The submitted eyewear was declared by applicant for adult use, and the reference head form was 1-M.

Clause	Requirement	Result
4	General requirements for eyewear	
4.1	Physiological compatibility	Note (1)
4.2	Construction and adjustment	P
4.4	Lens material and surface quality	P
4.5	Headform (s)	Note (2)
4.6	Retention by headband and harnesses (sit and fit)	P
5	Transmittance of the lenses	
5.2	Transmittance categories	P
5.3	Solar ultraviolet transmittance	P
5.4	General transmittance requirements	
5.4.1	Uniformity of luminous transmittance and transmittance matching	
5.4.1.1	Uniformity tinted lenses	P
5.4.1.2	Linear gradient-tinted lenses	NA
5.4.1.3	Radial gradient-tinted lenses	NA
5.4.1.4	Variations due to thickness variations	NA
5.4.2	Ultraviolet transmittance of the frame or housing	P
5.5	Special transmittance requirements	
5.5.1	Photochromic lenses	NA
5.5.2	Polarizing lenses	NA

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Clause	Requirement	Result
5.5.3	Gradient-tinted lenses	NA
5.6	Claimed transmittance and reflectance properties (optional requirements)	
5.6.2	Solar blue-light absorption/transmittance	NA (No claim)
5.6.3	Solar UV absorption/transmittance	NA (No claim)
5.6.4	Antireflective coated lenses	NA (No claim)
5.6.5	Reduced reflection coated lenses	NA (No claim)
5.6.6	Enhanced infrared absorption	NA (No claim)
6	Scattered light	P
7	Refractive power	
7.2	Spherical and cylindrical power	P
7.3	Spatial deviation	P
7.4	Prism imbalance	P
7.5	Goggles with inserts to carry prescription lenses	NA
8	Mechanical testing	P
9	Resistance to solar ultraviolet radiation	P
10	Resistance to ignition	P
11	Protection against water and snow	P
12	Field of view	P
13	Minimum area to be protected	P
14	Optional requirements	
14.1	Extended low temperature range	NA (No claim)
14.2	Resistance to fogging	P
14.3	Resistance to abrasion	NA (No claim)
15	Marking and information to be supplied by the manufacturer	
15.1	Assessment	#1
15.2	Mandatory marking on goggles	#2
15.3	Information to be supplied with goggles by the manufacturer	#3
15.4	Additional information to be available from the manufacturer	#4

Abbreviation: P = Pass; NA = Not Applicable.

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To be continued

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Test data:

5.2 Transmittance categories

Range	Left ocular (%)	Right ocular (%)	Tint category
380 - 780nm ($\tau_{v\ D65}$)	84.14	83.86	S0

5.3 Solar ultraviolet transmittance

Range	Measured value (%)		Requirement (%)	
	Left ocular	Right ocular	Left	Right
280 - 315nm (τ_{SUVB})	0.01	0.01	≤ 0.03 $\tau_{v\ D65}$ (2.52)	≤ 0.03 $\tau_{v\ D65}$ (2.52)
315 - 380nm ($\tau_{SUVA\ 380}$)	0.02	0.02	≤ 0.30 $\tau_{v\ D65}$ (25.24)	≤ 0.30 $\tau_{v\ D65}$ (25.16)
380 - 400nm ($\tau_{m380-400}$)	0.22	0.22	≤ 0.75 $\tau_{v\ D65}$ (63.10)	≤ 0.75 $\tau_{v\ D65}$ (62.89)

Requirement: (Table 1)

Tint category	Wavelength range from 280 nm to 400 nm			Visible spectral range	Optional Infrared spectral range
	Maximum solar UV-B transmittance τ_{SUVB} 280 nm ≤ λ ≤ 315 nm (%)	Maximum solar UV-A transmittance $\tau_{SUVA\ 380}$ 315 nm ≤ λ ≤ 380 nm (%)	Maximum Mean 380 nm to 400 nm spectral transmittance $\tau_{m380-400}$ 380 nm ≤ λ ≤ 400 nm (%)	Luminous transmittance $\tau_{v\ D65}$ 380 nm ≤ λ ≤ 780 nm (%)	Maximum solar IR transmittance τ_{SIR} 780 nm ≤ λ ≤ 2000 nm (%)
S0	0.03 $\tau_{v\ D65}$	0.30 $\tau_{v\ D65}$	0.75 $\tau_{v\ D65}$	$\tau_{v\ D65}$ > 80%	$\tau_{v\ D65}$
S1				43% < $\tau_{v\ D65}$ ≤ 80%	$\tau_{v\ D65}$
S2			0.50 $\tau_{v\ D65}$	18% < $\tau_{v\ D65}$ ≤ 43%	$\tau_{v\ D65}$
S3		0.15 $\tau_{v\ D65}$		8% < $\tau_{v\ D65}$ ≤ 18%	$\tau_{v\ D65}$
S4			0.5% or 0.15 $\tau_{v\ D65}$ whichever is greater	3% < $\tau_{v\ D65}$ ≤ 8%	$\tau_{v\ D65}$
Note Some national requirements may stipulate a different requirement for long wavelength limit of UV-A.					

5.4.1.1 Uniformity tinted lenses

Uniformity	Left ocular (%)	Right ocular (%)	Requirement (%)
Variation within lens [relative to higher value]	2.21	2.73	≤ 15
Difference between lenses [relative to lighter filter]	0.09		≤ 15

6 Scattered light

Scattered light	Left ocular (%)	Right ocular (%)	Requirement (%)
	1.1	1.2	≤ 3

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7.2 Spherical and cylindrical power

Optical power	Left ocular (m^{-1})	Right ocular (m^{-1})	Requirement (m^{-1})
Spherical power	-0.04	-0.01	± 0.12
Astigmatic power	0.04	0.01	≤ 0.12
Difference of spherical power between left and right filters	0.03		≤ 0.18

7.4 Prism imbalance

Prismatic power difference (cm/m)			Requirement (cm/m)
Horizontal	Base out	0.44	≤ 1.00
	Base in	----	≤ 0.25
Vertical		0.04	≤ 0.25

9 Resistance to solar ultraviolet radiation

(a) Relative change in the luminous transmittance after irradiation

Left ocular (%)	+0.1	Requirement ±3% for category S0
Right ocular (%)	-0.5	

(b) Wide angle scattering after irradiation

Wide angle scattering	Left ocular (%)	Right ocular (%)	Requirement (%)
	1.2	1.2	≤ 3

(c) After the solar radiation process, the submitted sample also met the UV requirements for the initial τv as given by Table 1 of the standard.

12 Field of view

Field of view	Left ocular (°)	Right ocular (°)	Requirement (°)
Temporal	>65	>65	≥ 60
Nasal	>35	>35	≥ 30
Superior	34	34	≥ 30
Inferior	34	34	≥ 30

14.2 Resistance to fogging

Time of remain free from fogging	Left ocular (s)	Right ocular (s)	Requirement (s)
	>35.0	>35.0	≥ 30

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Remarks:

#1 – All markings should be clear and sufficiently durable to remain legible throughout the intended lifetime of the product. The marking shall be fully visible when the complete goggles are assembled. The marking shall not encroach into the minimum field of view. The marking shall show only those aspects that have been proved by testing.

#2 – The frame shall be marked with:

a) The manufacturer's identifying mark or manufacturer's trade mark;
b) The number of this document, i.e. ISO 18527-1;

The lenses shall be marked with:

a) Manufacturer's identifying mark or manufacturer's trade mark;
b) Lens tint category or, in the case of photochromic lenses, tint categories.

Where the goggles comprise lens(es) and frame manufactured in one piece, the information may be on either the lens(es) or the frame.

#3 – The manufacturer shall provide information for the user with the goggles. This information shall be in the form of markings on the frame or separate information on labels, packaging, etc. that accompanies the goggles at the point of sale. Where pictograms are used, an explanation of the significance of these pictograms shall also be available.

This information shall include:

a) An identification as goggles for downhill skiing and snowboarding(S);
b) An identification of model;
c) The identifying mark or trade mark and the address of the manufacturer or supplier;
d) The applicable headform(s) and size(s) according to ISO 18526-4;
e) The minimum temperature of use (-10℃ see 8.1) or lower, if claimed, see 14.1;
f) Type of lens if photochromic and/or polarizing;
g) The number of the claimed tint category (in both the faded and darkened states for photochromic lenses), preferably on the frame, or on the lens;
h) The description of the claimed tint category in form of a symbol and/or verbal designation as given in Table 7;
i) The number of this document (ISO 18527-1:2021);
j) The Instructions for care and cleaning; warning(s) about cleaning or other products that might damage the eyewear; list of damaging products not suitable for cleaning;
k) The restrictions on use, which shall include at least the following warnings.
   1) "Not for driving or road use." And/or one of the graphical symbols in Figure 2 at least 5mm high.
   2) "Not for direct observation of the sun."
   3) "Not for protection against artificial light sources e.g. solaria."
   4) "Not for protection against mechanical hazards such as impact." This may be omitted if the goggles meet the impact level C requirements of ISO 16321-1
   5) Any other restrictions deemed appropriate by the manufacturer,

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#4 – The following information shall be available from the manufacturer or supplier on request:

a) An explanation of the marking and of the trademarks that are not universally recognized or foreseen by the users of this document;
b) The position of the reference point when this is different from the one defined in this document;
c) The country of origin (Made in …);
d) The nominal value of luminous transmittance;
e) The transmittance requirements applicable to this product (Table 1);
f) The polarization efficiency in the case of polarizing lenses;
g) The base material of lenses and frame.

Date sample received: Apr.18, 2024
Testing period: Apr.19, 2024 To Apr.25, 2024

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End of report

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