Test Report Number: SHAH01473313

Applicant: D2B A DIVISION OF REGATTA LTD.
RISOL HOUSE,MERCURY WAY,URMSTON,
MANCHESTER M41 7RR.ENGLAND

Date: 14 Jul, 2022

Sample Description:

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

Item Name	:	SKI GOGGLES
Item No.	:	DUE414,DUE 416
Reference No.	:	HB-166A,HB-166C.
Buyer	:	Dare 2B
Goods of Exported to	:	United Kingdom
Country of Origin	:	China.
Maufacturer	:	HUBO SPORTS PRODUCTS CO.,LIMITED

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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 174: 2001 Personal eye-protection – Ski goggles for downhill skiing Excluding: - Clause 4.2 Materials	Pass

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To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang, Wenzhou Branch

Peter Chen
General Manager

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Requirements for Ski Goggles

Test standard: EN 174:2001 – Personal Eye-Protection – Ski Goggles for Downhill Skiing

Number of samples tested: Six (6) pairs of ski goggles and Two (2) pieces of lens.

Note:

(1) No parts of the ski goggle which are in contact with wearer shall be made of materials that are known to cause irritation, allergic ore toxic reaction in a normal state of health amongst a significant proportion of users.

(2) CE marking is not specified in EN 174:2001 but per Regulation (EU) 2016/425, Article 16 & Article 17, the CE marking shall be affixed visibly, legibly and indelibly to the sample frame. The format of this CE marking was given in Annex II of Regulation (EC) No 765/2008.

It was found that the CE marking was provided on the eye-protectors.

Clause	Requirement	Result
4.1	General requirements	P
4.2	Materials	See note (1)
4.3	Sit and fit	P
4.4	Ventilation	P
5.1	Optical requirements	
5.1.1	Field of vision	P
5.1.2	Lens requirements (See test data)	
	Optical power	P
	Transmittance	P
	Variations in luminous transmittance	P
	Maximum reduced luminance coefficient	P
	Quality of material and surface	P
	Resistance to ultraviolet radiation	P
5.2	Mechanical strength	P
5.3	Protection against water and snow	P
5.4	Resistance to ignition	P
5.5	Suitability for cleaning and care	P
5.6	Optional specifications	
5.6.1	Resistance to surface damage by fine particles	P
5.6.2	Resistance to fogging of oculars	P
5.6.3	Enhanced infrared absorption of oculars	NA (No claim)
7	Information supplied by the manufacturers	P#1 (See note (2))

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To be continued

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Abbreviation: P = Pass; NA = Not Applicable;

Test data:

5.1.2 Lens requirements - Optical power:

Optical power	Sample	Left ocular	Right ocular	Optical class
Spherical power (m^{-1})	1	-0.06	-0.07	Class 2
Astigmatic power (m^{-1})	1	0.00	0.00	

Prismatic power difference (cm/m)	Sample	Horizontal	Vertical	Optical class
	1	0.31	0.01	Class 2
		Base out		

Requirement:

Optical Class	Spherical Power (m^{-1})	Astigmatic power (m^{-1})	Prismatic power difference (cm/m)		
			Horizontal limit		Vertical limit
			Base out	Base in	
1	±0.09	0.09	0.75	0.25	0.25
2	±0.12	0.12	1.00	0.25	0.25

Transmittance:

Range	Sample	Left ocular (%)	Right ocular (%)	Filter category
380 - 780nm (τ_v)	2	48.78	48.61	S1

For ultraviolet spectral range:

Range	Sample	Maximum transmittance (%)		Requirement (%)	
		Left ocular	Right ocular	Left	Right
280 – 315nm (UVB)	2	0.00	0.00	$\leq 0.03\ \tau_v$ (1.46)	$\leq 0.03\ \tau_v$ (1.46)
315 – 350nm (UVA)	2	0.00	0.00	$\leq 0.3\ \tau_v$ (14.63)	$\leq 0.3\ \tau_v$ (14.58)
315 – 380nm (τ_{SUVA})	2	0.00	0.00	$\leq 0.3\tau_v$ (14.63)	$\leq 0.3\ \tau_v$ (14.58)

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To be continued

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Requirement:

Filter category	Ultraviolet spectral range			Visible spectral range	
	Maximum value of spectral transmittance $\tau_{(\lambda)}$		Maximum value of solar UVA transmittance τ_{SUVA}	Range of luminous transmittance (τ_v)	
	280 nm to 315nm	Over 315nm to 350nm	315nm to 380nm	From over%	To%
S0	0.03 τ_v	0.3 τ_v	0.3 τ_v	80.0	100
S1				43.0	80.0
S2				18.0	43.0
S3		0.15 τ_v	0.15 τ_v	8.0	18.0
S4				3.0	8.0

Variations in luminous transmittance

Sample	Variation within filter [relative to higher value]		Difference between filters [relative to lighter filter]
	Left ocular (%)	Right ocular (%)	
2	4.28	3.58	0.34
Requirement (%)	≤ 10		≤ 20

Maximum reduced luminance coefficient

Sample	Maximum reduced luminance coefficient (cd/m^2)/lx		Class	Requirement
	Left ocular	Right ocular		
3	0.29	0.35	Class 2	Diffusion of light - Class 1: ≤ 1.0 (cd/m^2)/lx - Class 2: ≤ 2.0 (cd/m^2)/lx

Resistance to ultraviolet radiation:

Sample	Relative change in the luminous transmittance (%)		Requirement
	Left ocular	Right ocular	
2	+0.1	-1.1	±10% for category S1

Sample	Maximum reduced luminance coefficient (cd/m^2)/lx		Class	Requirement
	Left ocular	Right ocular		
3	0.26	0.34	Class 2	Diffusion of light (maximum): - Class 1: 1.0 (cd/m^2)/lx - Class 2: 2.0 (cd/m^2)/lx

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5.6.1 Resistance to surface damage by fine particles

Sample	Maximum reduced luminance coefficient (cd/m^2)/lx		Class	Requirement
	Left ocular	Right ocular		
4	8.61	9.10	Class 2	Diffusion of light (maximum): - Class 1: 5.0 (cd/m^2)/lx - Class 2: 10.0 (cd/m^2)/lx

5.6.2 Resistance to fogging of oculars

Sample	Time of remain free from fogging (s)		Requirement (s)
	Left ocular	Right ocular	
5	>35	>35	≥ 30

Remarks:

#1 - All information was reviewed by artwork.

Date sample received: Jul.4, 2022
Testing period: Jun.4, 2022 To Jul.14, 2022

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To be continued

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End of report

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