





**Test Report** No.: GZHL2208124814HM Date: Aug 17, 2022 Page 1 of 22

Sample Description : HELMETS FOR PEDAL CYCLISTS AND FOR USERS OF

SKATEBOARDS AND ROLLER SKATES

Item No. : Y-25

Manufacturer

Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Size : 48cm-54cm,54cm-58cm, 58cm-62cm

HPI (from basic plane) : 48cm-54cm: 43mm FOR EN960 495

48cm-54cm: 48mm FOR EN960 535 54cm-58cm: 41mm FOR EN960 535 54cm-58cm: 45mm FOR EN960 575 58cm-62cm: 47mm FOR EN960 605

58cm-62cm: 51mm FOR EN960 625

Sample Receiving Date : Aug 08, 2022

Test Performing Date : Aug 08, 2022 to Aug 15, 2022

Test Performed : EN 1078:2012+A1:2012,

Analysis of Azo Dye,

To Determine the pH Value, Color Fastness to Perspiration

Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Lell Wu

**Authorized Signatory** 

cel



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I. Test Conducted: Based on EN 1078:2012+A1:2012

Helmets for pedal cyclists and for users of skateboards and roller skates

**Number of Tested Sample:** 24 piece(s)

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
4.1	Materials  For those parts of the helmet coming into contact with the skin, the material used should be known not to undergo appreciable alteration from contact with sweat or with substances likely to be found in toiletries.  Materials shall not be used which are known to cause skin disorders.	Pass
4.2	Construction The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident.  The helmet should be durable and withstand handling. The helmet shall be so designed and shaped that parts of it (visor, rivets, ventilators, edges, fastening device and the like) are not likely to injure the user in normal use.  NOTE: Helmets should:  have low weight; be ventilating; be easy to put on and take off; be usable with spectacles; not significantly interfere with the ability of the user to hear traffic noise.	Pass See annex 1
4.3	Field of vision  When tested in accordance with 5.7 there shall be no occultation in the field of vision bounded by angles as follows (see Figure 1):  - horizontally: min. 105° from the longitudinal vertical median plane to the left and right hand sides;  - upwards: min. 25° from the reference plane;  - downwards: min. 45° from the basic plane.	Pass See annex 4
4.4	Shock absorbing capacity The helmet shall give protection to the forehead, rear, sides, temples and crown of the head. When tested in accordance with 5.3 and 5.4 the peak acceleration shall not, for each impact, exceed 250 <i>g</i> for the velocity of 5,42 +0.1,-0 m/s on the flat anvil, and 4,57+0.1,-0 m/s on the kerbstone anvil.  NOTE: These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.	Pass See annex 2
4.5	Durability  After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).	Pass
4.6	Retention system	



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Clause	Test Method/Requirement	Result			
4.6.1	General  Means shall be provided for retaining the helmet on the wearer's head. All parts of the retention system shall be securely attached to the helmet.	Pass			
4.6.2	Chin strap  The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide. Chin straps may be fitted with means of enhancing comfort for the wearer.				
4.6.3	Fastening device Any retention system shall be fitted with a device to adjust and maintain tension in the system. The device shall be capable of adjustment so that the buckle does not sit on the jaw bone.	Pass			
4.6.4	Color  No part of the retention system shall be colored green.  NOTE: It is recommended that the opening mechanism be marked with red or orange color.	Pass			
4.6.5	Strength  When tested in accordance with 5.5, the dynamic extension of the retention system shall not exceed 35 mm and the residual extension shall not exceed 25 mm. For this purpose, extension includes slippage of the fastening device.  Damage to the retention system shall be accepted provided that the above requirements are met.  NOTE: In this test, slippage of the fastening device can be measured and recorded separately from other contributions to the extension but this is for information only and is not subject to a separate requirement.	Pass See annex 3			
4.6.6	Effectiveness When tested in accordance with 5.6 the helmet shall not come off the headform.	Pass			
4.6.7	Ease of release Following the strength test in accordance with 5.5 and with the load still applied, it shall be possible to open the release system with one hand.	Pass			
5.2	Inspection and determination of mass Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2.  Determine the mass of the helmets of the same size submitted for testing. Calculate and record the mean value in g rounded off to the nearest 10 g, stating the size of the helmet.	NT			
	Marking  Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the life of the helmet:	NT			
_	a. the number of this European standard;	NT			
6	b. the name or trademark of the manufacturer;	NT			
	c. the designation of the model;	NT			
	d. the designation, which shall be one or more of the following:-helmet for pedal	NT			



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Clause	use Test Method/Requirement	
	cyclists, skateboarders or roller skaters;	
	e. the size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit;	NT
	f. the weight of the helmet (the average mass in g determined according to EN 1078,5.2);	NT
	g. year and quarter of manufacture;	NT
	h. a label carrying the instructions –"Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet"	NT
	In addition, if the helmet has components made of material which are known to be adversely affected by contact with hydrocarbons, cleaning fluids, paints, transfers or other extraneous additions, the helmet shall carry an appropriate warning.	NT
	If there is a consumer sales packaging, the information specified in a), b), d), and h) shall also be given on that package. The text shall be of minimum font size 12.	NT
	Information supplied by the manufacture	
	With every helmet clear information in the language of the country of sale shall be given as follows:	NT
7	a. that the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head;	NT
	b. that the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm;	NT
	c. how the helmet should be positioned on the head to ensure the intended protection is provide (e.g. that it should be placed so as to protect the forehead and not be pushed too for over the back of the head); to protect the forehead and not be pushed too for over the back of the head);	NT
	d. that a helmet cannot always protect against injury;	NT
	e. that a helmet subjected to a severe impact should be discarded and destroyed;	NT
	f. a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.	NT



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Model: <u>Y-25</u> Size: <u>48-54</u> cm Test headform: <u>495 (EN 960:2006)</u>

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	375
2	380
3	376
4	375
Average	376.5

# Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	4.62	107.3	Pass
		Flat	Right	5.50	195.7	Pass
0	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.48	188.1	Pass
2		Kerbstone	Rear	4.66	90.5	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left	4.66	103.3	Pass
		Flat	Rear	5.47	155.7	Pass

# Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	25.6	11.1	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	25.0	10.7	Pass

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## Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105° Upward: >25° Downward: >45°



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Model: <u>Y-25</u> Size: <u>48-54</u> cm Test headform: <u>535 (EN 960:2006)</u>

Annex-1: Mass
Mass of the samples:

Sample No.	Mass (g)
1	379
2	375
3	376
4	376
Average	376.5

# Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	4.65	97.9	Pass
		Flat	Right	5.45	181.2	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.48	200.2	Pass
		Kerbstone	Rear	4.66	89.9	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left	4.65	104.1	Pass
		Flat	Rear	5.47	177.6	Pass

# Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	26.1	12.6	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	23.9	8.7	Pass

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Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105° Upward: >25° Downward: >45°



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Model: <u>Y-25</u> Size: <u>54-58</u> cm Test headform: <u>535 (EN 960:2006)</u>

Annex-1: Mass
Mass of the samples:

Sample No. Mass (g)

1 445
2 450
3 442
4 447

Average 446.0

Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	4.60	100.4	Pass
1		Flat	Left	5.46	170.3	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.50	172.9	Pass
		Kerbstone	Left rear	4.66	92.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left front	4.65	102.0	Pass
		Flat	Rear	5.47	92.6	Pass

Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	25.0	9.5	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	24.7	9.0	Pass

Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105° Upward: >25° Downward: >45°



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Model: <u>Y-25</u> Size: <u>54-58</u> cm Test headform: <u>575 (EN 960:2006)</u>

Annex-1: Mass
Mass of the samples:

***************************************			
Sample No.	Mass (g)		
1	431		
2	430		
3	426		
4	429		
Average	429.0		

# Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
4	High temperature	Kerbstone	Front	4.64	93.1	Pass
l	No recondition (Clause 5.4.2.1)	Flat	Left	5.47	133.2	Pass
2	Low temperature	Flat	Crown	5.52	135.6	Pass
2	No recondition (Clause 5.4.2.2)	Kerbstone	Left rear	4.63	88.0	Pass
2	Artificial Ageing	Kerbstone	Left front	4.63	77.8	Pass
3	No recondition (Clause 5.4.2.3)	Flat	Rear	5.50	113.0	Pass

# Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	26.9	13.7	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	27.1	14.9	Pass

Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105° Upward: >25° Downward: >45°



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Model: <u>Y-25</u> Size: <u>58-62</u> cm Test headform: <u>605 (EN 960:2006)</u>

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	473
2	472
3	472
4	465
Average	470.5

# Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature	Kerbstone	Front	4.62	92.1	Pass
l	No recondition (Clause 5.4.2.1)	Flat	Left	5.46	160.4	Pass
2	Low temperature	Flat	Crown	5.45	165.8	Pass
No recondition (Clause 5.4.2.2)	Kerbstone	Left rear	4.65	79.8	Pass	
0	Artificial Ageing	Kerbstone	Left front	4.62	88.0	Pass
3	No recondition (Clause 5.4.2.3)	Flat	Rear	5.48	136.2	Pass

## Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	28.6	14.0	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	25.3	13.9	Pass

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## Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105° Upward: >25° Downward: >45°



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Model: <u>Y-25</u> Size: <u>58-62</u> cm Test headform: <u>625 (EN 960:2006)</u>

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	465
2	468
3	465
4	468
Average	466.5

Annex-2: Impact energy attenuation test

Test Specification: EN 1078:2012+A1:2012-5.4 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
4	High temperature	Kerbstone	Front	4.61	105.2	Pass
ļ l	No recondition (Clause 5.4.2.1)	Flat	Left	5.47	174.2	Pass
0	Low temperature	Flat	Crown	5.49	177.9	Pass
2	No recondition (Clause 5.4.2.2)	Kerbstone	Left rear	4.62	97.2	Pass
2	Artificial Ageing	Kerbstone	Left front	4.63	103.7	Pass
3	No recondition (Clause 5.4.2.3)	Flat	Rear	5.45	160.8	Pass

Annex-3: Retention system strength

Test Specification: EN 1078:2012+A1:2012-5.5 Ambient temperature at time of test: 23.2°C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	27.6	14.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	27.6	14.1	Pass

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Annex-4: Field of vision

Test Specification: EN 1078:2012+A1:2012-5.7

Horizontal: >105° Upward: >25° Downward: >45°



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## II. Analysis of AZO Dye and to Determine the PH Value in the submitted sample.

SGS Ref No.: CAN21-202769

Test Requested	Result
pH value	See Results
Entry 43 of Commission Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azodyes	PASS

Test Results:

#### **Test Part Description:**

SGS Sample ID Description

CAN21-202769.001 Black fleece sheet

CAN21-202769.002 Black fabric webbing

#### Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

## pH value

Test Method: With reference to ISO 3071:2020, analysis was performed by pH meter.

<u>Test Item(s)</u> <u>001</u> <u>002</u> pH value 7.4 5.7

#### Notes:

(1)Extraction medium: KCl solution

(2)pH value of extraction medium: 5.0 - 7.5

(3)Temperature of the extraction solution: 22±2°C



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# Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Azo Dyes

Test Method: With reference to EN ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to EN ISO14362-3:2017,

analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL		<u>001</u>
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	30	mg/kg	5	ND	ND
MDA						
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis-	101-14-4	30	mg/kg	5	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND	ND
2,4-Toluylendiamine, TDA						
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS



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Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL		<u>002</u>
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	30	mg/kg	5	ND	ND
MDA			_			
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis-	101-14-4	30	mg/kg	5	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND	ND
2,4-Toluylendiamine, TDA						
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
Comment					PASS	PASS



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#### Notes:

- 1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
- 2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
- 3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
- 4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

#### Sample photo:



**Product Photo** 



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**Product Photo** 

## III. Colour Fastness to Perspiration.

SGS Ref. No.: SL92119323616001TX

Sample Description : (A)1# BLACK PADDING (B)2# BLACK WEBBING

# **Test Result**

## **Colour Fastness To Perspiration**

(ISO 105-E04:2013; test specimen in vertical position)

## Acid

-	Unit	Α	В	Requirement
Change in Shade	Grade	4-5	4-5	-
Staining On Multi-fibre Stripe				-
Acetate	Grade	4-5	4-5	-
Cotton	Grade	4-5	4-5	-
Polyamide	Grade	4-5	4-5	-
Polyester	Grade	4-5	4-5	-
Acrylic	Grade	4-5	4-5	-
Wool	Grade	4-5	4-5	-

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-	Unit	Α	В	Requirement
Change in Shade	Grade	4-5	4-5	-
Staining On Multi-fibre Stripe				-
Acetate	Grade	4-5	4-5	-
Cotton	Grade	4-5	4-5	-
Polyamide	Grade	4-5	4-5	-
Polyester	Grade	4-5	4-5	-
Acrylic	Grade	4-5	4-5	-
Wool	Grade	4-5	4-5	-

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.



## Remark:

- 1. Pass means the test sample met the requirement of the test item.
- 2. NA means not applicable.
  - NT means not tested as per client's request.
- 3. A material list for each part of the product and a statement to announce the material complying with requirements of the standard are received from the manufacturer.

A

- 4. The actual test size of this test is 48cm-54cm.
- 5. Test data for 54cm-58cm,58cm-62cm are quoted from GZHL2207121130HM.

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- 6. Only No.1 is tested in this report, other results & photos are extracted from the test report number GZHL2110046006HM.
- 7. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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# Sample photos:





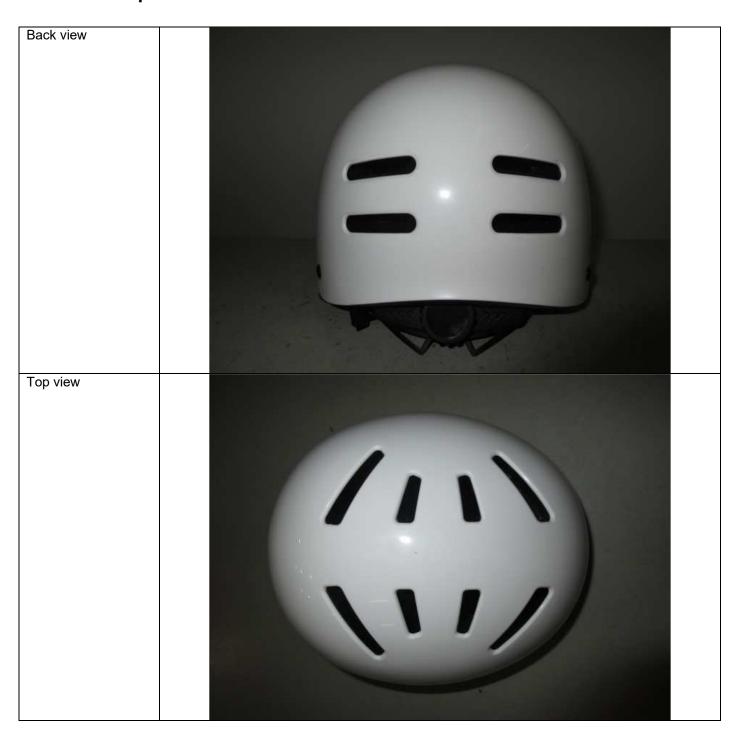
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Test line for (535) EN 960:2006 head



Test line for (535) EN 960:2006 head form





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Test line for (575) EN 960:2006 head Test line for (605) EN 960:2006 head form ZN960-605 HPI: 47MM



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Test line for (625) EN 960:2006 head form



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