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检测
TESTING
CNAS L0167

Test Report

No.: GZHL260100341001HM

Date: Feb 03, 2026

Page 1 of 17

POWERSLIDE SPORTARTIKELVERTRIEBS GMBH
ESBACHGRABEN 1, 95463 BINDLACH, GERMANY

Sample Descriptions : ST COMBO PAD
Style No.(s) : HP-S959
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.

Class : B
Sample Receiving Date : Jan 22, 2026
Test Performing Date : Jan 22, 2026 to Feb 03, 2026
Test Performed : EN 15613:2008
Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006- AZO Dyes
pH Value
Colour Fastness to Perspiration (ISO 105-E04:2013)
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



Robert Zhao
Authorized Signatory

Joan Huang
Authorized Signatory



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I. Test Conducted: Based on EN 15613:2008 Knee and elbow protectors for indoor sports — Safety requirements and test methods.

Test Results:

Clause	Test Method/Requirement	Result
5	Safety requirements	---
5.1	General	---
5.1.1	Knee and elbow protectors shall be so designed that in the foreseeable conditions of use for which they are intended the user can perform the typical movements without being hindered. See test method in 6.3.	Pass
5.1.2	Knee and elbow protectors shall be free of sharp edges, corners and burrs that might injure the user. See test method in 6.4.	Pass
5.2	Innocuousness Construction materials or their derivatives shall not harm those coming into contact with them. The manufacturer shall list in the information supplied by the manufacturer the substances used for the main components of the product. <i>NOTE</i> Information on the identification and classification of such substances can be found in the Directive 67/548/EEC (classification, packaging and labelling of dangerous substances) [1] as well as in the Regulation (EC) no.1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)[2].	Pass
5.3	Sizing Knee and elbow protectors shall be indicated with a size according to the principles described in Clause 6 of EN 340:2003. See test method in 6.1.	Pass
5.4	Adjusting/restraint systems	---
5.4.1	If knee and elbow protectors have parts which can be adjusted by the user or which can be removed for the purpose of change they shall be so designed that they can be easily adjusted, assembled and removed without a tool. The width of the straps shall be at least 40 mm. Restraint devices shall be so designed that they do not constrict limbs, e.g. by rolling straps. See test method in 6.1.	Pass
5.4.2	Knee and elbow protectors shall remain in the areas they are designed to protect during all typical movements or during an impact. When tested according to 6.5, the movement of the central point of a protector shall not be greater than specified in Table 1. Table 1 — Maximum movements of knee and elbow protectors	Pass See annex 1

Protector	Maximum movement	
	Class A mm	Class B mm
Elbow protector	40	50
Knee protector	50	60



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5.5	<p>Impact performance When tested according to 6.6, all test results shall not exceed the values specified in Table 2.</p> <p style="text-align: center;">Table 2 — Impact performance requirements of knee and elbow protectors</p> <table border="1"> <thead> <tr> <th rowspan="2">Protector</th> <th colspan="2">Class A</th> <th colspan="2">Class B</th> <th rowspan="2">Max. peak force kN</th> </tr> <tr> <th><i>r</i> mm</th> <th><i>E</i> J</th> <th><i>R</i> Mm</th> <th><i>E</i> J</th> </tr> </thead> <tbody> <tr> <td>Elbow protector</td> <td>12,5</td> <td>1</td> <td>17,5</td> <td>1,5</td> <td>4</td> </tr> <tr> <td>Knee protector</td> <td>25,0</td> <td>2,5</td> <td>35,0</td> <td>4</td> <td>6</td> </tr> </tbody> </table> <p><i>r</i> is the radius of curvature of the anvil <i>E</i> is the impact energy</p> <p>See test method in 6.6.</p>	Protector	Class A		Class B		Max. peak force kN	<i>r</i> mm	<i>E</i> J	<i>R</i> Mm	<i>E</i> J	Elbow protector	12,5	1	17,5	1,5	4	Knee protector	25,0	2,5	35,0	4	6	<p>Pass See annex 2</p>
	Protector		Class A		Class B			Max. peak force kN																
<i>r</i> mm		<i>E</i> J	<i>R</i> Mm	<i>E</i> J																				
Elbow protector	12,5	1	17,5	1,5	4																			
Knee protector	25,0	2,5	35,0	4	6																			
7	<p>Marking</p> <p>Knee and elbow protectors shall be durably and clearly marked with the following information:</p> <p>a. Complete address of the manufacturer and/or his authorized representative established in the community;</p> <p>b. Designation of the protector, commercial name or code that uniquely identifies the protector;</p> <p>c. Size of the protector (body mass class and size);</p> <p>d. Information about the class according to Clause 4;</p> <p>e. Clear indication whether the protector is for left or right fitting, if appropriate;</p> <p>f. International care label;</p> <p>g. Year of manufacture (date or code);</p> <p>h. The expiry date if ageing significantly reduces the performance of the protector;</p> <p>i. Following pictogram according to ISO 7000:2004 - 1641, instructing the user to see the information supplied by the manufacturer.</p> <div style="text-align: center;"> </div>	<p>---</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p> <p>NT</p>																						



	Information supplied by the manufacturer	---
	Knee and elbow protectors shall be provided with precise information in the official language(s) of the country or regions in which the product is to be placed on the market. At least the following information shall be given:	NT
	a. All the information specified in Clause 7;	NT
	b. Complete address of the manufacturer and/or his authorized representative established in the community;	NT
	c. Instructions on how to select protectors of the correct performance level and an explanation of the performance levels;	NT
	d. Instructions on how to choose the correct size of protector and check its fit;	NT
	e. Details of the size of protectors and the body dimensions to which they relate;	NT
	f. Instructions on how to adjust the protectors;	NT
	g. Warning about any changes in environmental conditions, such as temperature, that would significantly reduce the performance of the protector;	NT
8	h. Warning that no protector can offer full protection against injuries;	NT
	i. Warning about any contamination, alteration to the protector or misuse that would dangerously reduce the performance of the protector;	NT
	j. Warning that the protector shall be inspected carefully before use. Signs of damage or weakness might reduce the performance of the protector;	NT
	k. List of the substances in the main components of the protectors;	NT
	l. Instructions for caring for a cleaning of the protector;	NT
	m. Instructions concerning the expected service life of the protector, inspections to carry out, repairs that may be made, and advise on when discard the protector because it might not longer perform adequately;	NT
	n. Type of use for which the protector is intended;	NT
	o. Type of use for which the protector is not intended;	NT
	p. Hazards specific to the sport against which some protection is given;	NT
	q. Hazards specific to the sport against which protection is not given.	NT

Remarks:

1. NA means not applicable
2. NT means not tested as the client's request.



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Item No: HP-S959

Class: B

Impactor: 40*40 mm

Annex 1: Restraint test result

Test Specification: BS EN 15613:2008-6.5

Ambient temperature at time of test: 23.0 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee protector	3	8	12	Class A: 50mm Class B: 60mm	Pass
		9	13		
		10	14		

Annex 2: Impact performance test result

Test Specification: BS EN 15613:2008-6.6

Ambient temperature at time of test: 23.0 °C

Style	Sample No.	Impact site	Impact energy (J)	Peak force (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	4	0.79	6	Pass
		2	4	1.03		
	2	3	4	1.05		
		4	4	1.06		



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II. SGS Ref No.: CAN26-0021822

	Test Requirement	Conclusion
1	Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006- AZO Dyes	Pass
2	pH Value	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN26-0021822-0001.C001	Black fabric("1#")
SN2	A2	CAN26-0021822-0001.C002	Black fabric("2#")
SN3	A3	CAN26-0021822-0001.C003	Black elastic belt("3#")
SN4	A4	CAN26-0021822-0001.C004	Black fabric("4#")
SN5	A5	CAN26-0021822-0001.C005	Black fabric rope("5#")

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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 ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-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/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	
3,3'-Dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
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/2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
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
Conclusion					Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-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/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
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'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-Oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-Thiodianiline	139-65-1	30	mg/kg	5	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2	
o-Toluidine	95-53-4	30	mg/kg	5	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
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
Conclusion					Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-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/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
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'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
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/2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
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
Conclusion					Pass	Pass



Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A4	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-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/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
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'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
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/2,4-Toluylenediamine, TDA	95-80-7	30	mg/kg	5	ND	ND
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
Conclusion					Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A5	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-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



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A5	
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
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'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
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/2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
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
Conclusion					Pass	Pass

Notes:

(1) *Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

*Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.

(2) 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.

(3) The result interpretation and assessment guide according to Annex C of EN ISO 14362-1:2017 should be taken into account when assessing the source of amine.

pH Value

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

Test Item(s)	A1	A2	A3
pH Value	6.6	5.7	6.4



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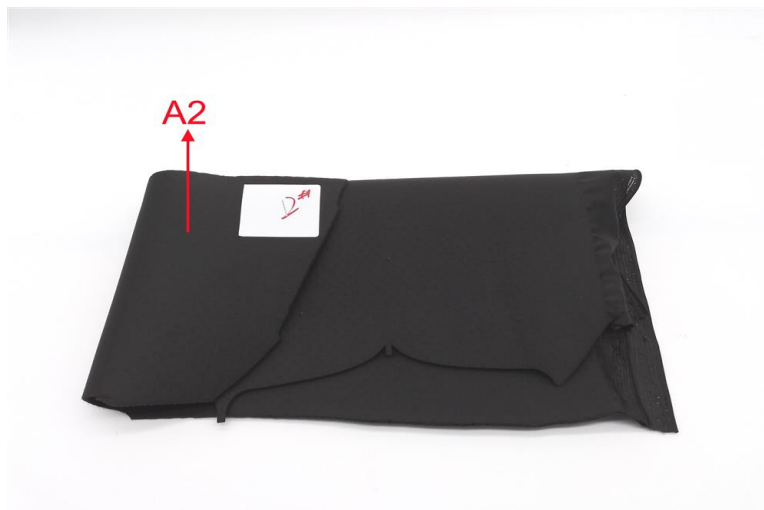
Test Item(s)	A4	A5
pH Value	6.8	6.4

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

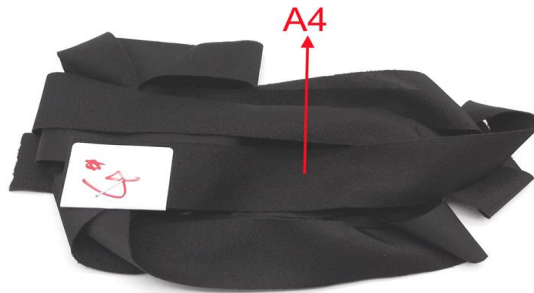
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

Sample Photo:



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III.SGS Ref No.: SZHL2601003056HM

Test Requested		Conclusion
1.	Colour Fastness to Perspiration (ISO 105-E04:2013)	SEE RESULT

Colour Fastness to Perspiration

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

Acidic	Unit	A	B	C	D	E
Change in shade	Grade	4-5	4-5	4-5	4-5	4-5
Staining on multifibre stripe						
Acetate	Grade	4-5	4-5	4-5	4-5	4-5
Cotton	Grade	4-5	4-5	4-5	4-5	4-5
Nylon	Grade	4-5	4-5	4-5	4-5	4-5
Polyester	Grade	4-5	4-5	4-5	4-5	4-5
Acrylic	Grade	4-5	4-5	4-5	4-5	4-5
Wool	Grade	4-5	4-5	4-5	4-5	4-5
Alkaline						
Change in shade	Grade	4-5	4-5	4-5	4-5	4-5
Staining on multifibre stripe						
Acetate	Grade	4-5	4-5	4-5	4-5	4-5
Cotton	Grade	4-5	4-5	4-5	4-5	4-5
Nylon	Grade	4-5	4-5	4-5	4-5	4-5
Polyester	Grade	4-5	4-5	4-5	4-5	4-5
Acrylic	Grade	4-5	4-5	4-5	4-5	4-5
Wool	Grade	4-5	4-5	4-5	4-5	4-5

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



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Remark:

- The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the report:

N/A(NA) = Not Applicable

N/C(NC) = Not Conducted

N/T(NT) = Not Tested

Sample Picture (As received)



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Sample Photo(s):





End of Report



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