

Test Report

No.: GZHL1907030578CE

Date: Nov 04, 2019

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TSG INTERNATIONAL AG
BUELACHSTRASSE 5, 8057 ZUERICH SWITZERLAND

Sample Description : KNEEPAD WAVESK8 A
Style / Item No. : 710289
P.O. / Ref. No. : 1580637
Buyer : TSG INTERNATIONAL AG
Manufacturer : ENCHESH INTL. LTD
Supplier : ENCHESH INTL. LTD
Country of Origin : CHINA
Country of Destination : 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.

Range : C
Level : 1
Sample Receiving Date : Jul 22, 2019
Test Performing Date : Jul 22, 2019 to Jul 31, 2019
Test Performed : EN 14120:2003+A1:2007(Exclude clause 5.4/7/8),
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



Leil Wu
Authorized Signatory



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Guangzhou Branch Testing Center Headquarters

198 Kezhu Road, Sciotech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075191 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075191 e sgs.china@sgs.com

I. Test Conducted: Based on **EN 14120:2003+A1:2007** Protective clothing –Wrist, palm, knee and elbow protectors for user of roller sports equipment – requirements and test methods.

Test Results:

Clause	Test Method/Requirement	Result
4	Performance levels	
4.1	Level 1: Protectors intended to be suitable for normal roller sports.	---
4.2	Level 2: Protectors intended to be suitable for use in acrobatic roller sports.	
5	Requirements	
5.1	General performance requirements shall be based on 3 weight ranges as follows: a) range A : Users of up to 25 kg body weight ; b) range B : Users of body weight between 25 kg and 50 kg ; c) range C : Users of body weight above 50 kg. Combined protectors such as wrist protectors shall meet the requirements for each protector.	---
5.2	Ergonomics Protectors shall be so designed and manufactured that in the foreseeable conditions of use for which they are intended the user can perform the roller sports normally and unhindered whilst enjoying protection at the specified limit.	Pass
5.3	Innocuousness Protectors shall be safe to use and fit for their purpose. They shall be designed and manufactured to provide protection when used according to the manufacturer's instructions, without endangering the user or others.	Pass
	There shall not be hard or sharp edges, seams, buckles or other items on the surfaces of the products that could harm the user or others during normal use. Examination shall be made according to 6.3.	Pass
	Construction materials and incorporated substances shall not harm those coming into contact with them.	Pass
	The manufacturer shall list in the information supplied with the protectors the main composition of the protectors and shall label any protector containing substances or preparations generally known to be hazardous. Information about determining the chemical innocuousness of protectors is given in annex A.	NT
5.4	Sizing Protectors shall be marked with a size. The size shall be designated by the range of body of the intended users, see 5.1.	NT



<p>5.5</p>	<p>Restraint Protectors shall not be easily displaced from the areas they are designed to protect during normal movements and when subjected to impacts. When subjected to impacts. When tested in accordance with 6.4 the central point of a protector shall not move more than the appropriate value in Table 1.</p> <p>Table 1: Maximum movement of protectors during testing.</p> <table border="1"> <thead> <tr> <th rowspan="2">Kind of protectors</th> <th colspan="3">Maximum movement (mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Elbow protectors</td> <td>20</td> <td>40</td> <td>50</td> </tr> <tr> <td>Knee protectors</td> <td>30</td> <td>50</td> <td>60</td> </tr> <tr> <td>Wrist protectors</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>Palm protectors</td> <td>20</td> <td>20</td> <td>20</td> </tr> </tbody> </table>	Kind of protectors	Maximum movement (mm)			A	B	C	Elbow protectors	20	40	50	Knee protectors	30	50	60	Wrist protectors	20	20	20	Palm protectors	20	20	20	<p>Pass See annex 1</p>																	
Kind of protectors	Maximum movement (mm)																																									
	A	B	C																																							
Elbow protectors	20	40	50																																							
Knee protectors	30	50	60																																							
Wrist protectors	20	20	20																																							
Palm protectors	20	20	20																																							
<p>5.6</p>	<p>Abrasion resistance When tested in accordance with 6.5 the abrasion resistant layer of the protector shall not be perforated.</p>	<p>Pass See annex 2</p>																																								
<p>5.7</p>	<p>Impact strength When tested in accordance with 6.6 the abrasion resistant layer of the knee, elbow, wrist or palm protector shall not break or split.</p> <p style="text-align: right;">Unit: J</p> <table border="1"> <thead> <tr> <th rowspan="3">Kind of protectors</th> <th colspan="3">Level 1</th> <th colspan="3">Level 2</th> </tr> <tr> <th colspan="6">Range of body mass</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Knee protectors</td> <td>25±2</td> <td>45±2</td> <td>65±2</td> <td>30±2</td> <td>50±2</td> <td>70±2</td> </tr> <tr> <td>Elbow protectors</td> <td>20±2</td> <td>40±2</td> <td>60±2</td> <td>20±2</td> <td>40±2</td> <td>60±2</td> </tr> <tr> <td>Wrist and Palm protectors</td> <td>30±2</td> <td>40±2</td> <td>50±2</td> <td>30±2</td> <td>40±2</td> <td>50±2</td> </tr> </tbody> </table>	Kind of protectors	Level 1			Level 2			Range of body mass						A	B	C	A	B	C	Knee protectors	25±2	45±2	65±2	30±2	50±2	70±2	Elbow protectors	20±2	40±2	60±2	20±2	40±2	60±2	Wrist and Palm protectors	30±2	40±2	50±2	30±2	40±2	50±2	<p>Pass See annex 3</p>
Kind of protectors	Level 1			Level 2																																						
	Range of body mass																																									
	A	B	C	A	B	C																																				
Knee protectors	25±2	45±2	65±2	30±2	50±2	70±2																																				
Elbow protectors	20±2	40±2	60±2	20±2	40±2	60±2																																				
Wrist and Palm protectors	30±2	40±2	50±2	30±2	40±2	50±2																																				



5.8	Impact performance for knee, palm and elbow protectors							Pass See annex 4	
	A protector complies with this standard if the mean value of the peak force does not exceed the value in Table 2 when tested in accordance with 6.7.								
	Kind of protector	Protectors level 1							Maximum peak force kN
		Range of body mass							
		A		B		C			
		r	e	r	e	r	e		
		mm	J	mm	J	mm	J		
	Knee protectors	25	3	35	8	50	12		6
	Elbow protectors	12.5	1	17.5	4	25	6		4
	Palm protectors	100	3	100	4	100	5		3
Kind of protector	Protectors level 2						Maximum peak force kN		
	Range of body mass								
	A		B		C				
	r	e	r	e	r	e			
	mm	J	mm	J	mm	J			
Knee protectors	25	15	35	20	50	25	6		
Elbow protectors	12.5	7.5	17.5	10	25	15	4		
Palm protectors	100	6	100	8	100	10	3		
r is the radius of curvature of the anvil e is the impact energy									
5.9	Specific requirements for wrist protectors								
5.9.1	Adjustment The restraint system shall be continuously adjustable. Testing in accordance with 6.1							NA	
5.9.2	Stiffness Wrist protectors shall be sufficiently stiff that when tested according to 6.8 the extension of the artificial wrist joint is between $\sphericalangle A \sphericalangle 35^\circ \sphericalangle A1 \sphericalangle$ and 55° . NOTE Extension of the wrist joint is the bending of the hand backwards from a position in a straight line with the forearm. Unit: N-m							NA	
	Moment of force		Range						
			A	B	C				
			2	3	3				



5.9.3	Dimensions of stiffness elements Wrist protectors shall have stiffening elements that exceed the dimensions in table 3. The reference point for measurements shall be the plane of the wrist of an appropriate size of subject, who has put on the protector. The position of the plane of the wrist of the subject shall be determined according to EN 1082-1			NA	
	Unit: mm				
	Location of stiffness elements	Range of body mass			
		A	B		C
	Length from the wrist up to the arm	30	40	50	
	Length from the wrist towards the finger tip	40	50	60	
	Width in the palmer region	15	20	25	
7	Marking Protectors shall be durably and clearly marked with the following:			NT	
	a. name of trademark of the manufacturer or his authorized representative within the European Union;			NT	
	b. designation of the protector, commercial name of that uniquely identifies the protector;			NT	
	c. size of the protector (see also 5.4)			NT	
	d. name of this standard and the performance level;			NT	
	e. clear indication whether the protector is for left or right fitting, if appropriate;			NT	
	f. international care label symbols;			NT	
	g. year of manufacture (date or code);			NT	
	h. the following pictogram, instructing the user to see the information supplied by the manufacture.			NT	



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8	Information supplied by the manufacturer	
	Protectors shall be supplied with information and instructions for fitting and use to promote their safe and effective use. The information shall be precise and comprehensible and in the official languages of the country or region in which the equipment is to be placed on the market. At least the following information and instructions shall be given:	NT
	a. all the information specified in clause 7;	NT
	b. full address of the manufacturer or importer	NT
	c. instructions on how to select protectors of the correct performance level and explanation of the performance level of the protectors specified in this standard;	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
	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. list of the substances in the main components of the protector;	NT
	k. instructions for caring for and cleaning the protector;	NT
l. instructions concerning the expected service life of the protector, inspections to carry out, repairs that may be made, and advice on when discard the protector because it might no longer perform adequately.	NT	



Model: 710289

Range: C

Level: 1

Size: S

Annex 1: Restraint test result

Test Specification: EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee	6	38	47	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		38	47		
		39	48		

Annex 2: Abrasion resistance test result

Test Specification: EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	

Annex 3: Impact strength test result

Test Specification: EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee	4	Not break or split	Pass
	5	Not break or split	

Annex 4: Impact performance test result

Test Specification: EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	2.46	3.02	6	Pass
		2	3.85			
	2	3	2.32			
		4	4.91			
	3	5	2.25			
		6	2.31			



Model: 710289

Range: C

Level: 1

Size: M

Annex 1: Restraint test result

Test Specification: EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee	6	40	50	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		42	48		
		40	48		

Annex 2: Abrasion resistance test result

Test Specification: EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	

Annex 3: Impact strength test result

Test Specification: EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee	4	Not break or split	Pass
	5	Not break or split	

Annex 4: Impact performance test result

Test Specification: EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	2.61	2.97	6	Pass
		2	3.62			
	2	3	2.19			
		4	4.48			
	3	5	2.50			
		6	2.40			



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Model: 710289

Range: C

Level: 1

Size: L

Annex 1: Restraint test result

Test Specification: EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee	6	48	50	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		49	50		
		48	47		

Annex 2: Abrasion resistance test result

Test Specification: EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	

Annex 3: Impact strength test result

Test Specification: EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee	4	Not break or split	Pass
	5	Not break or split	

Annex 4: Impact performance test result

Test Specification: EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	2.89	3.55	6	Pass
		2	4.55			
	2	3	3.21			
		4	4.36			
	3	5	3.05			
		6	3.24			



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Model: 710289

Range: C

Level: 1

Size: XL

Annex 1: Restraint test result

Test Specification: EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee	6	43	48	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		42	51		
		44	50		

Annex 2: Abrasion resistance test result

Test Specification: EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	

Annex 3: Impact strength test result

Test Specification: EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Test result description	Result
Knee	4	Not break or split	Pass
	5	Not break or split	

Annex 4: Impact performance test result

Test Specification: EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	3.02	3.50	6	Pass
		2	4.29			
	2	3	3.08			
		4	4.18			
	3	5	3.32			
		6	3.11			



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

SGS Ref No.: CAN19-182963

Test Requested	Result
To determine the pH Value in the submitted sample(s).	See Results
Determination of Azodyes in the submitted sample(s) with reference to the Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).	PASS

Test Results :.

Test Part Description :

SGS Sample ID	Description
CAN19-182963.001	Black elastic strap("1")
CAN19-182963.002	Black fabric("2")
CAN19-182963.003	Black elastic fabric("3")
CAN19-182963.004	Black fabric("4")
CAN19-182963.005	Black fabric("5")
CAN19-182963.006	Black fleece sheet("6")
CAN19-182963.007	Black fabric("7")
CAN19-182963.008	Black fabric("8")

Remarks :

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

pH value

Test Method : With reference to ISO 3071:2005, analysis was performed by pH meter.

Test Item(s)	001	002	003
pH value	6.6	7.3	6.2
Test Item(s)	004	005	006
pH value	6.9	6.9	6.9



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Test Item(s)	007	008
pH value	6.5	6.3

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

Azo Dyes

Test Method : With reference to ISO 14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.

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



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O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

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

Test Item(s)	CAS NO.	Unit	MDL	003	
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND



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5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

Test Item(s)	CAS NO.	Unit	MDL	004	
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	mg/kg	5	ND	ND



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p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

Test Item(s)	CAS NO.	Unit	MDL	005	
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND



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2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	
				<i>Method A</i>	<i>Method B</i>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene					
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole					
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm					
ethane					
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND
(2-chloroaniline)					
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND
2,4-Toluylendiamine					
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	
				<i>Method A</i>	<i>Method B</i>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND



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2-Amino-4-nitrotoluene					
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

Test Item(s)	CAS NO.	Unit	MDL	008	
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND



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p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

Notes :

(1)Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.

(2)Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Requirement : ≤ 30 mg/kg for each of aromatic amine according to Requirement of Entry 43 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 2002/61/EC).



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Sample photo:



Product Photo



Product Photo



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Product Photo



Product Photo





Product Photo



Product Photo





Product Photo



Product Photo



III. Colour Fastness to Perspiration.

1. SGS Ref No.: SL91939288525201TX

(A)BLACK STRAP (B)BLACK FABRIC (BACK IS EVA) (D)BLACK LYCRA (E)BLACK MULTI-SPANDEX FABRIC
(F)BLACK SUDE (G)BLACK TERRY CLOTH (H)BLACK FABRIC

Test Result

Colour Fastness To Water

(ISO 105-E01:2013;test specimen in vertical position)

-	Unit	(A)	(B)	(D)
Change In Shade	-	4-5	4-5	4-5
Staining On Multi-fibre Stripe				
Acetate	-	4-5	4-5	4-5
Cotton	-	4-5	4-5	4-5
Nylon	-	4-5	4-5	4
Polyester	-	4-5	4-5	4-5
Acrylic	-	4-5	4-5	4-5
Wool	-	4-5	4-5	4-5

-	Unit	(E)	(F)	(G)	(H)
Change In Shade	-	4-5	4-5	4-5	4-5
Staining On Multi-fibre Stripe					
Acetate	-	4-5	4-5	4-5	4-5
Cotton	-	4-5	4-5	4-5	4-5
Nylon	-	4-5	4-5	4-5	4
Polyester	-	4-5	4-5	4-5	4-5
Acrylic	-	4-5	4-5	4-5	4-5
Wool	-	4-5	4-5	4-5	4-5

-	Unit	Requirement
Change In Shade	-	-
Staining On Multi-fibre Stripe		
Acetate	-	-
Cotton	-	-
Nylon	-	-
Polyester	-	-
Acrylic	-	-
Wool	-	-

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



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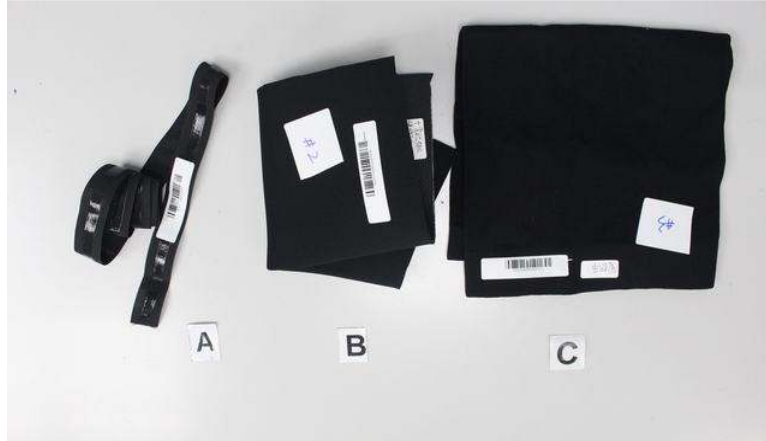
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Sample Photo



2. SGS Ref No.: SL91939287938501TX

EIGHT SAMPLES OF FABRIC MARKED AS (A)BLACK STRAP (B)BLACK FABRIC (BACK IS EVA) (D)BLACK LYCRA (E)BLACK MULTI-SPANDEX FABRIC (F)BLACK SUDE (G)BLACK TERRY CLOTH

Test Result

Colour Fastness To Perspiration

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

Acid

-	Unit	(A)	(B)	(D)
Change In Shade	-	4-5	4-5	4-5
Staining On Multi-fibre Stripe	-	4-5	4-5	4-5
Acetate	-	4-5	4-5	4-5
Cotton	-	4-5	4-5	4-5
Nylon	-	4-5	4-5	4-5
Polyester	-	4-5	4-5	4-5
Acrylic	-	4-5	4-5	4-5
Wool	-	4-5	4-5	4-5

-	Unit	(E)	(F)	(G)
Change In Shade	-	4-5	4-5	4-5
Staining On Multi-fibre Stripe	-	4-5	4-5	4-5
Acetate	-	4-5	4-5	4-5
Cotton	-	4-5	4-5	4-5
Nylon	-	4-5	4-5	4-5
Polyester	-	4-5	4-5	4-5
Acrylic	-	4-5	4-5	4-5
Wool	-	4-5	4-5	4-5

-	Unit	Requirement
Change In Shade	-	-
Staining On Multi-fibre Stripe	-	-
Acetate	-	-
Cotton	-	-
Nylon	-	-
Polyester	-	-
Acrylic	-	-
Wool	-	-

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



Colour Fastness To Perspiration

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

Alkaline

-	Unit	(A)	(B)	(D)
Change In Shade	-	4-5	4-5	4-5
Staining On Multi-fibre Stripe				
Acetate	-	4-5	4-5	4-5
Cotton	-	4-5	4-5	4-5
Nylon	-	4-5	4-5	4-5
Polyester	-	4-5	4-5	4-5
Acrylic	-	4-5	4-5	4-5
Wool	-	4-5	4-5	4-5

-	Unit	(E)	(F)	(G)
Change In Shade	-	4-5	4-5	4-5
Staining On Multi-fibre Stripe				
Acetate	-	4-5	4-5	4-5
Cotton	-	4-5	4-5	4-5
Nylon	-	4	4-5	4-5
Polyester	-	4-5	4-5	4-5
Acrylic	-	4-5	4-5	4-5
Wool	-	4-5	4-5	4-5

-	Unit	Requirement
Change In Shade	-	-
Staining On Multi-fibre Stripe		
Acetate	-	-
Cotton	-	-
Nylon	-	-
Polyester	-	-
Acrylic	-	-
Wool	-	-

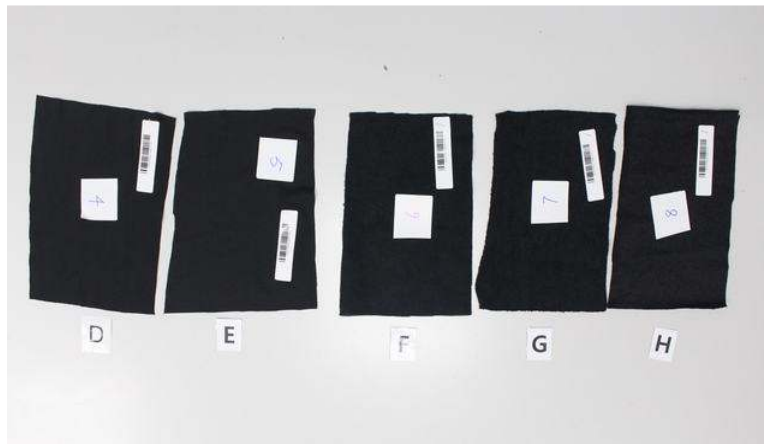
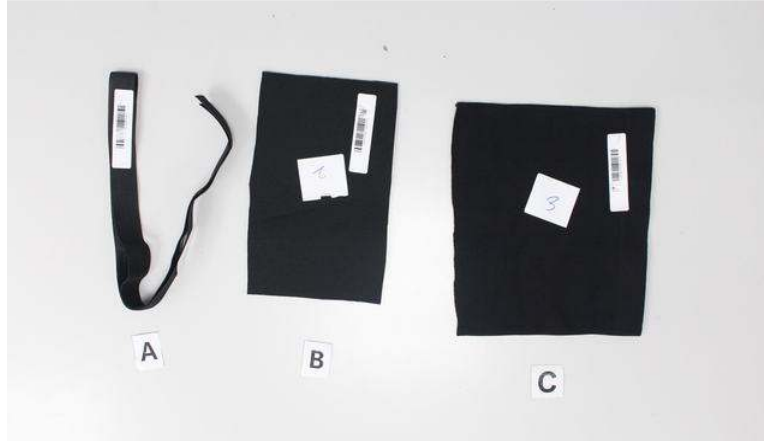
Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.



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Sample Photo



3. SGS Ref No.: SL91939288450901TX

Two samples of items marked as (A)3.Black elastic fabric (B)8.Black fabric.

Test Result:

Colour Fastness To Perspiration

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

Acid

	Unit	(A)	(B)	Requirement
Change In Shade	-	4-5	4-5	-
Staining On Multi-fibre Stripe	-	4-5	4-5	-
Acetate	-	4-5	4-5	-
Cotton	-	4-5	4-5	-
Nylon	-	4	4-5	-



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Test Report

No.: GZHL1907030578CE

Date: Nov 04, 2019

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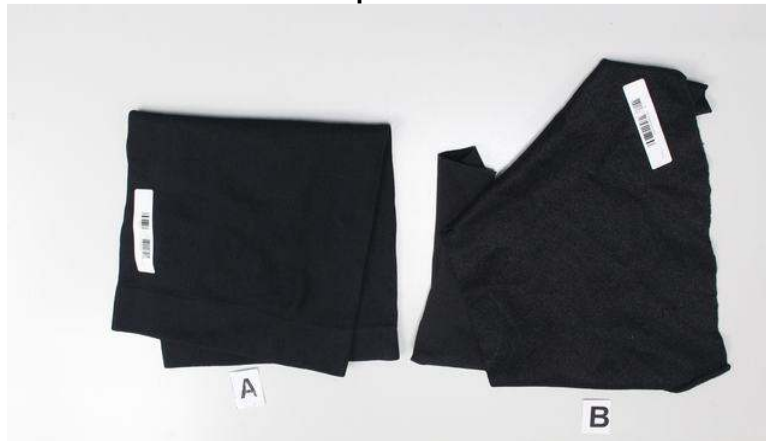
Polyester	-	4-5	4-5	-
Acrylic	-	4-5	4-5	-
Wool	-	4-5	4-5	-

Alkaline

	Unit	(A)	(B)	Requirement
-				
Change In Shade	-	4-5	4-5	-
Staining On Multi-fibre Stripe				
Acetate	-	4-5	4-5	-
Cotton	-	4-5	4-5	-
Nylon	-	4	4-5	-
Polyester	-	4-5	4-5	-
Acrylic	-	4-5	4-5	-
Wool	-	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.

Sample Photo



4. SGS Ref No.: SL91939299913301TX
ONE SAMPLE OF BLACK ELASTIC FABRIC

Test Result

Colour Fastness To Water

(ISO 105-E01:2013; test specimen in vertical position)

	Unit	(A)	Requirement
-			
Change In Shade	-	4-5	-



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Staining On Multi-fibre Stripe

Acetate	-	4-5	-
Cotton	-	4-5	-
Nylon	-	4-5	-
Polyester	-	4-5	-
Acrylic	-	4-5	-
Wool	-	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.

Sample Photo



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
4. Only Part I is tested in this report, Part II & III are extracted from the test report number GZHL1909038518CE



Sample Photo(s):

<p>Front view & Back view</p>	
<p>Test area & Test sites</p>	

End of Report

