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POWERSLIDE SPORTARTIKELVERTRIEBS GMBH ESBACHGRABEN 1, 95463 BINDLACH, GERMANY

Sample Description : POWERSLIDE ONE BASIC ADULT TRI-PACK

Style / Item No. : PS-BS101

Buyer : POWERSLIDE SPORTARTIKELVERTRIEBS GMBH

Manufacturer : HYPRO INDUSTRIAL CO., LTD

Country of Origin : CHINA

Country of Destination : EUROPE, USA

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 : Nov 15, 2019 Sample Resubmission Date : Nov 25, 2019

Test Performing Date : Nov 15, 2019 to Feb 19, 2020

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



GZHL1911047811C

Lell Wu Authorized Signatory





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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
	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
5.3	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.	Pass
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



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	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. Table 1: Maximum movement of protectors during testing.								Pass		
5.5	Kind of protectors		Maximu	m mover	ment (mr	n)			See annex 1		
	Kind of protectors	Α		В		С					
	Elbow protectors	20		40		50					
	Knee protectors	30		50		60					
	Wrist protectors	20		20		20					
	Palm protectors	20		20	20		20				
5.6	Abrasion resistance When tested in accordance with 6.5 the abrasion resistant layer of the protector shall not be perforated.								Pass See annex 4		
	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. Unit: J										
			Level 1		Level 2				Pass		
5.7	Kind of protectors		R	ange of I	oody mass				See annex 5		
		Α	В	С	Α	В	С				
	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	Wrist and Palm protectors 30±2 40±2 50±2 30±2 40±2 50±2									



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5.8	Impact performance A protector complies exceed the value in Kind of protector Knee protectors Elbow protectors Palm protectors Kind of protector Knee protectors Palm protectors Elbow protectors In the protector protectors In the protector prot	r mm 25 12.5 100 rvature of the second of th	R A e J 3 1 3 R A e J 7.5 6	rd if the ted in ac Protector ange of the mm 35 17.5 100 Protector ange of the mm 35 17.5 100 Protector ange of the mm 35 17.5 100	mean vaccordance rs level 1 cody mas 3 e J S 8 4 4 4 rs level 2	ss r mm 50 25 100	e J 12 6 5	force does not Maximum peak force kN 6 4 3 Maximum peak force kN 6 4 3	Pass See annex 6
5.9	Specific requireme		vrist pro	tectors					
0.0	Adjustment	1110 101 1	mot pro						
5.9.1	The restraint system shall be continuously adjustable. Testing in accordance with 6.1							Pass	
5.9.2	Stiffness Wrist protectors shall be sufficiently stiff that when tested according to 6.8 th extension of the artificial wrist joint is between A1 35° A1 and 55°. NOTE Extension of the wrist joint is the bending of the hand backwards from position in a straight line with the forearm. Unit: N-m Range A B C Moment of force 2 3 3								Pass See annex 3



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5.9.3	Dimensions of stiffness elements Wrist protectors shall have stiffening element The reference point for measurements shall b size of subject, who has put on the protector, the subject shall be determined according to E)			
		A 30	B 40	C 50	
	Length from the wrist up to the arm Length from the wrist towards the finger tip	40	50	60	
	Width in the palmer region	15	20	25	
	Marking				
	Protectors shall be durably and clearly market	NT			
	a. name of trademark of the manufacturer of European Union;	NT			
	 designation of the protector, commercial r protector; 	NT			
7	c. size of the protector (see also 5.4)	NT			
	d. name of this standard and the performand		NT		
	e. clear indication whether the protector is for	or 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 us manufacture.	NT			



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	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					
	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				
8	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				
	 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				



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Model: PS-BS101 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
		20	28	Range A: 30mm	
Knee	6	22	29	Range B: 50mm	Pass
		22	28	Range C: 60mm	
	6	19	25	Range A: 20mm	Pass
Elbow		20	26	Range B: 40mm	
		20	26	Range C: 50mm	
	6	4	8	Range A: 20mm	Pass
Palm & Wrist		4	7	Range B: 20mm	
		5	7	Range C: 20mm	

Annex 2: Dimensions of stiffness elements test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style Sample No.		Location of stiffness elements	Dimensions (mm)	Result	
	7	Length from the wrist up to the arm	84.5		
Wrist protector		Length from the wrist towards the finger tip	62.0	Pass	
,		Width in the palmer region	36.0		

Annex 3: Stiffness test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Degree of angle (°)	Result
Wrist protector	7	43°	Pass

Annex 4: 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	6	Not Perforated	Dage
protector	7	Not Perforated	Pass
Elbow 6 Not Perforated		Pass	



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protector	7	Not Perforated		
Palm & Wrist	6	Not Perforated	Door	
protector 7		Not Perforated	Pass	

Annex 5: 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
Vnoo	4	Not break or split	Door
Knee	5	Not break or split	Pass
Elbour	4	Not break or split	Door
Elbow	5	Not break or split	Pass
Dolm 9 wright	Not break or split		Pass
Palm & wrist	5	Not break or split	rass

Annex 6: 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 Max. peak force (kN)	Result
	4	1	1.60		10100 (1114)	
	1	2	2.28			
Knee	2	3	0.80	2.42	6	Door
protector	2	4	2.13	2.43	6	Pass
	3	5	1.22			
	3	6	6.52			
	1	1	2.37	3.19	4	Pass
		2	3.32			
Elbow	2	3	1.45			
protector		4	4.03			
	3	5	0.86			
		6	7.11			
	1	1	1.66			
	'	2	1.86			
Palm	2	3	1.36	1.81	3	Pass
protector		4	1.96			. 400
	3	5	1.90			
		6	2.09			



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Model: <u>PS-BS101</u> Range: <u>C</u> Level: <u>1</u> Size: <u>M</u>

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
		23	30	Range A: 30mm	
Knee	6	25	31	Range B: 50mm	Pass
		25	31	Range C: 60mm	
		22	28	Range A: 20mm	
Elbow	6	23	28	Range B: 40mm	Pass
		23	28	Range C: 50mm	
		5	8	Range A: 20mm	·
Palm & Wrist	6	5	7	Range B: 20mm	Pass
		5	9	Range C: 20mm	

Annex 2: Dimensions of stiffness elements test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Location of stiffness elements	Dimensions (mm)	Result
		Length from the wrist up to the arm	82.0	
Wrist protector	7	Length from the wrist towards the finger tip	63.5	Pass
-		Width in the palmer region	36.0	

Annex 3: Stiffness test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Degree of angle (°)	Result
Wrist protector	7	50°	Pass

Annex 4: 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	6	Not Perforated	Dage
protector	7	Not Perforated	Pass
Elbow	6	Not Perforated	Pass



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protector	7	Not Perforated	
Palm & Wrist	6	Not Perforated	Door
protector	7	Not Perforated	Pass

Annex 5: 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
l/n a a	4	Not break or split	Dana
Knee	5	Not break or split	Pass
□lb a	4	Not break or split	Dana
Elbow	5	Not break or split	Pass
Dolm 9 wrigh	4	Not break or split	Door
Palm & wrist	5	Not break or split	Pass

Annex 6: 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 Max. peak force (kN)	Result
	1	1	1.87		, ,	
		2	2.52			
Knee	2	3	0.95	2.42	6	Door
protector		4	2.01	2.42	6	Pass
	3	5 1.38				
	6 5.79					
	1	1	2.46	3.22	4	
		2	3.01			Pass
Elbow	2	3	1.58			
protector		4	4.24	5.22		
	3	5	1.16			
	3	6	6.88			
	1	1	1.82			
	ı	2	2.05		3	
Palm	2	3	1.58	1.97		Pass
protector		4	2.23	1.97		1 455
	3	5	1.74			
	3	6	2.38			



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Model: <u>PS-BS101</u> Range: <u>C</u> Level: <u>1</u> Size: <u>L</u>

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
		26	36	Range A: 30mm	
Knee	6	28	38	Range B: 50mm	Pass
		27	38	Range C: 60mm	
		25	33	Range A: 20mm	
Elbow	6	25	30	Range B: 40mm	Pass
		23	31	Range C: 50mm	
		6	9	Range A: 20mm	
Palm & Wrist	6	5	8	Range B: 20mm	Pass
		5	9	Range C: 20mm	

Annex 2: Dimensions of stiffness elements test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Location of stiffness elements	Dimensions (mm)	Result
		Length from the wrist up to the arm	82.5	
Wrist protector	7	Length from the wrist towards the finger tip	62.5	Pass
,		Width in the palmer region	36.0	

Annex 3: Stiffness test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Degree of angle (°)	Result
Wrist protector	7	47°	Pass

Annex 4: 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	6	Not Perforated	Door
protector	7	Not Perforated	Pass
Elbow	6	Not Perforated	Pass



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protector	7	Not Perforated	
Palm & Wrist	6	Not Perforated	Door
protector	7	Not Perforated	Pass

Annex 5: 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
I/maa	4	Not break or split	Door
Knee	5	Not break or split	Pass
□h a	4	Not break or split	Dese
Elbow	5	Not break or split	Pass
Palm & wrist	4	Not break or split	Door
	5	Not break or split	- Pass

Annex 6: 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 Max. peak force (kN)	Result
	4	1	1.66		, ,	
	1	2	3.18			
Knee	2	3	1.16	2.85	6	Door
protector	2	4	1.90	2.00	6	Pass
	3	5	1.46			
	3	6	7.74			
	1	1	1.95	2.56	4	
	1	2	2.19			Pass
Elbow	2	3	1.09			
protector	2	4	3.71			
	3	5	0.72			
	3	6	5.70			
	1	1	1.90			
	ı	2	1.95			
Palm protector	2	3	1.83	1.89	3	Pass
		4	2.11	1.03	3	Газэ
	3	5	1.85			
	3	6	1.68			



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Model: <u>PS-BS101</u> Range: <u>C</u> Level: <u>1</u> Size: <u>XL</u>

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
		33	45	Range A: 30mm	
Knee 6	32	44	Range B: 50mm Range C: 60mm	Pass	
	33	45			
		28	40	Range A: 20mm	
Elbow	6	28	41	Range B: 40mm Range C: 50mm	Pass
		29	41		
		6	9	Range A: 20mm	
Palm & Wrist	6	6	9	Range B: 20mm	Pass
		7	8	Range C: 20mm	

Annex 2: Dimensions of stiffness elements test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Location of stiffness elements	Dimensions (mm)	Result
		Length from the wrist up to the arm	81.5	
Wrist protector	7	Length from the wrist towards the finger tip	64.0	Pass
•		Width in the palmer region	36.0	

Annex 3: Stiffness test result

Test Specification: EN 14120:2003+A1:2007-5.9.3 Ambient temperature at time of test: 22.2 °C

Style	Sample No.	Degree of angle (°)	Result
Wrist protector	7	51°	Pass

Annex 4: 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	6	Not Perforated	Dage
protector	7	Not Perforated	Pass
Elbow	6	Not Perforated	Pass



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protector	7	Not Perforated	
Palm & Wrist	6	Not Perforated	Door
protector	7	Not Perforated	Pass

Annex 5: 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
I/maa	4	Not break or split	Door
Knee	5	Not break or split	Pass
□h a	4	Not break or split	Dese
Elbow	5	Not break or split	Pass
Palm & wrist	4	Not break or split	Door
	5	Not break or split	- Pass

Annex 6: 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 Max. peak force (kN)	Result
	4	1	1.75		,	
	1	2	3.25			
Knee	0	3	1.20	0.70		Desa
protector	2	4	1.85	2.73	6	6 Pass
	3	5	1.63			
	3	6	6.69			
	1	1	1.90	2.51	4	
	I	2	2.34			Pass
Elbow	2	3	1.21			
protector		4	3.20			
	3	5	0.95			
	3	6	5.46			
	1	1	1.82			
	ı	2	1.90			
Palm protector	2	3	1.67	1.96	3	Pass
		4	2.27	1.30	J	F 455
	3	5	1.80			
	ა ა	6	2.30			



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

SGS Ref No.: CAN19-229919

Test Requested	Result
To determine the pH value content(s) in the submitted sample(s).	See Results
Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azodyes	PASS

Test Results:.

Test Part Description:

SGS Sample ID	Description
CAN19-229919.001	Black fabric
CAN19-229919.002	Black fabric strap
CAN19-229919.003	Black elastic fabric sheet
CAN19-229919.004	Black thread
CAN19-229919.005	Black elastic strap

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)	<u>001</u>	<u>002</u>	<u>003</u>
pH value	6.1	5.2	6.3
Test Item(s)	<u>004</u>	<u>005</u>	
pH value	6.2	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



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Azo Dyes

Test Method: With reference to ISO 14362-1:2017, analysis was conducted with

GC-MS/HPLC-DAD.Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to

ISO 14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.		<u>Unit</u>	<u>MDL</u>		<u>001</u>
					Method A	Method B
4-Aminobiphenyl	92-67-1	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	I	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	ĺ	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	I	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	İ	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	I	mg/kg	5	ND	ND
4,4'-methylene-bis-	101-14-4	I	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	I	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 5	ND ND	ND
2,4-Xylidine	95-68-1		mg/kg	5 5	ND ND	ND ND
2,6-Xylidine	87-62-7	l l	mg/kg	Э	ND	ND
Test Item(s)	CAS NO.		<u>Unit</u>	<u>MDL</u>		<u>002</u>
					Method A	Method B
4-Aminobiphenyl	92-67-1	ı	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



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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 / 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'-	838-88-0	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm ethane	000 00 0	g/Ng	Ü	110	112
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 / 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.	<u>Unit</u>	MDL		<u>003</u>
				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 / 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'-	838-88-0	mg/kg	5	ND	ND



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Dimethyl-4,4'-diaminodiphenylm ethane						
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.	<u>Unit</u>	MDL	_	<u>004</u>	
				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	
p-cresidine	120-71-8	ma/ka	5	ND	ND	
•	101-14-4	mg/kg	5 5	ND	ND ND	
4,4'-methylene-bis- (2-chloroaniline)		mg/kg				
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	



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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 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 0-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	Test Report	No.: GZHL1911047811	CE	Date: Feb 20, 2020		Page 19 of 26	
Z,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 0-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 7,4'-Diaminoanisole 4,4'-diaminodiphenylmethane 101-77-9 mg/kg 5 ND ND	O-Anisidine	90-04-0	mg/kg	5	ND	ND	
Test Item(s) CAS NO. Unit MDL Method A 005 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 0-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	2,4-Xylidine	95-68-1	mg/kg	5	ND	ND	
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 0-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	2,6-Xylidine	87-62-7	mg/kg	5	ND	ND	
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 0-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	Test Item(s)	CAS NO.	<u>Unit</u>	MDL		<u>005</u>	
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					Method A	Method B	
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	4-Aminobiphenyl	92-67-1	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 S-nitro-o-toluidine / 99-55-8 mg/kg 5 ND ND ND 2-Amino-4-nitrotoluene 4-chloroaniline 106-47-8 mg/kg 5 ND ND ND 4-methoxy-m-phenylenediamine 615-05-4 mg/kg 5 ND ND ND / 2,4-Diaminoanisole 4,4'-diaminodiphenylmethane 101-77-9 mg/kg 5 ND ND	Benzidine	92-87-5	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 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 ND / 2,4-Diaminoanisole 4,4'-diaminodiphenylmethane 101-77-9 mg/kg 5 ND ND	4-chloro-o-toluidine	95-69-2	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	2-naphthylamine	91-59-8	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	o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	
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		99-55-8	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		100 17 0	m a/l.a	_	ND	ND	
/ 2,4-Diaminoanisole 4,4'-diaminodiphenylmethane 101-77-9 mg/kg 5 ND ND							
4,4'-diaminodiphenylmethane 101-77-9 mg/kg 5 ND ND		010-00-4	mg/kg	5	ND	ND	
	·	101-77-9	ma/ka	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	Dimethyl-4,4'-diaminodiphenylm		3 3				
		400.74.0		_	ND	ND	
p-cresidine 120-71-8 mg/kg 5 ND ND	•						
4,4'-methylene-bis- 101-14-4 mg/kg 5 ND ND (2-chloroaniline)	•	101-14-4	mg/kg	5	ND	ND	
4,4'-oxydianiline 101-80-4 mg/kg 5 ND ND	,	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		95-53-4			ND	ND	
4-methyl-m-phenylenediamine / 95-80-7 mg/kg 5 ND ND	4-methyl-m-phenylenediamine /				ND	ND	
2,4-Toluylendiamine			0 0				
2,4,5-trimethylaniline 137-17-7 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	4-aminoazobenzene	60-09-3			ND	ND	
O-Anisidine 90-04-0 mg/kg 5 ND ND	O-Anisidine	90-04-0			ND	ND	
2,4-Xylidine 95-68-1 mg/kg 5 ND ND	2,4-Xylidine	95-68-1			ND	ND	
2,6-Xylidine 87-62-7 mg/kg 5 ND ND		87-62-7			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) The ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4-aminoazobenzene.



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- (3) Max. limit ≤ 30 mg/kg for each aromatic amine specified by 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).
- (4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxym-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.
- (5) 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.
- (6) 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.

Sample photo:





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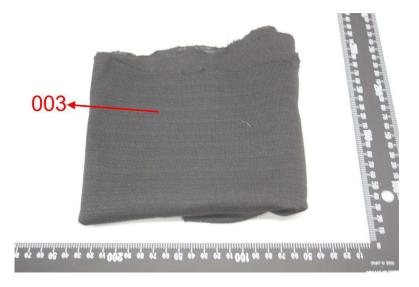
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III. Colour Fastness to Perspiration.

SGS Ref. No.: SL91949301181501TX (A)BLACK PADDING, (B)BLACK EDGE FABRIC, (C)BLACK FABRIC, (D)BLACK THREAD, (E)BLACK STRAP

Test Result:

Colour Fastness To Perspiration

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

Acid

-	Unit	(A)	(B)	(C)	Requirement
Change In Shade	-	4-5	4-5	4-5	· <u>-</u>
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	-
<u>-</u>	Unit	(D)	(E)	Requirement	
Change In Shade	-	4-5	4-5	-	
Staining On Multi-fibre Stripe		4 3	4 0		
Acetate	-	4-5	4-5	-	
Cotton	-	4-5	4-5	-	
Nylon	-	4-5	4-5	-	
Polyester	-	4-5	4-5	-	
Acrylic	-	4-5	4-5	-	
Wool	-	4-5	4-5	-	
<u>Alkaline</u>					
	Unit	(4)	(D)	(0)	Daminanant
-		(A)	(B)	(C)	Requirement
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	(D)	(E)	Requirement	

4-5



Change In Shade

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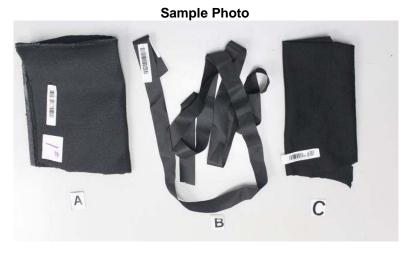
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4-5



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Staining On Multi-fibre Stripe					
Acetate	-	4-5	4-5	-	
Cotton	-	4-5	4-5	-	
Nylon	-	4-5	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.





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



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Sample Photo(s):





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End of Report



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