

Test Report

No.: GZHL2003006580CE

Date: Jul 08, 2020

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BOARDS AND MORE GMBH
RABACH 1, 4591 MOLLN, AUSTRIA

Sample Description : K-TRAZE AMP ZIP
Style / Item No. : 47900-5918
Manufacturer : ENCHES
Supplier : VIA ENCHES DAISY
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.

Type : A
Level : 1
Region : K
Sample Receiving Date : Mar 18, 2020
Test Performing Date : Mar 18, 2020 to Jul 08, 2020
Test Performed : EN 1621-1:2012
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



scan to see the report



GZHL2003006580CE

Leil Wu
Authorized Signatory



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

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I. Test Conducted: Based on **EN 1621-1:2012** Motorcyclists' protective clothing against mechanical impact – Part 1: Motorcyclists' limb joint impact protectors – Requirements and test methods.

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
4	Zones of protection and protectors The following body regions are specified as zones of protection and protectors shall be categorised as follows: a. shoulder: Protector "S" b. elbow and forearm: Protector "E" c. hip: Protector "H" d. knee and upper tibia: Protector "K" e. knee, upper and middle tibia: Protector "K" + "L" f. the front of the leg below protector "K": Protector "L" The size of the zones of protection shall comply with 5.3, Table 1.	--
5	Requirements	
5.1	General Unless otherwise specified, all linear dimensions bigger than 50 mm in the whole text shall be provided with a deviation of $\pm 2\%$ and dimensions up to 50 mm with a deviation of ± 1 mm.	Note
5.2	Innocuousness	
5.2.1	The materials shall comply with the requirements for innocuousness of materials in EN 340, with the exception of the requirement concerning the colour fastness to perspiration which is replaced by 5.2.2.	Pass
5.2.2	The colour fastness to water of the constituent materials which could be likely to come into contact with the skin of the user shall be determined in accordance with 6.2 and shall be at least grade 4 of the Grey scale for the staining of any component of the multi-fibre reference fabric.	Pass
5.3	Minimum dimensions of zone of protection Motorcyclist's limb joint protectors shall provide a zone of protection with the minimum dimensions as specified in Table 1. Testing shall be carried out as described in 6.3.4. In Table 1, the zones of protection are defined by the three dimensions r_1 , r_2 and l , as illustrated in Figure1	Pass



5.4	<p>Impact attenuation</p> <p>When impact protection is tested in accordance with 6.3.4.2 (ambient impact test), 6.3.4.3 (wet impact test after hydrolytic ageing) and, if required, 6.3.4.4 (high temperature impact test) and/or 6.3.4.5 (low temperature impact test), the transmitted force shall conform to the values in Table 2. Level 1 or Level 2 can only be awarded provided that such level is achieved under all test conditions claimed.</p> <p>Table 2 — Transmitted force and performance levels</p> <table><tr><th></th><th>Level 1</th><th>Level 2</th></tr><tr><td>Overall mean value</td><td>≤ 35 kN</td><td>≤ 20 kN</td></tr><tr><td>Single strike area A^a</td><td>≤ 35 kN</td><td>≤ 20 kN</td></tr><tr><td>Single strike area B^a and C^a</td><td>≤ 50 kN</td><td>≤ 30 kN</td></tr></table> <p>^a Areas A, B and C correspond to the areas in Figure 3.</p> <p>After each test, there shall be no fragmentation of the sample and no sharp edges shall be formed. However, formation of cracks and loss of soft debris is permissible.</p>		Level 1	Level 2	Overall mean value	≤ 35 kN	≤ 20 kN	Single strike area A ^a	≤ 35 kN	≤ 20 kN	Single strike area B ^a and C ^a	≤ 50 kN	≤ 30 kN	See annex 1
	Level 1	Level 2												
Overall mean value	≤ 35 kN	≤ 20 kN												
Single strike area A ^a	≤ 35 kN	≤ 20 kN												
Single strike area B ^a and C ^a	≤ 50 kN	≤ 30 kN												
5.5	<p>Ergonomic requirements</p> <p>When examined and tested in accordance with 6.4, impact protectors shall be found satisfactory for the use intended; to confirm this requirement, each question of 6.5 needs to be answered with “yes”.</p> <p>The following deficiencies are not admitted:</p> <p>a) sharp edges;</p> <p>b) any design feature which cause ergonomic problems to the assessor.</p> <p>Follow questions were answered with "yes" by assessor(s):</p> <p>a) Do you confirm the protector fits you properly?</p> <p>b) Can you easily get on and off a motorcycle?</p> <p>c) Can you reach and operate the controls of the motorcycle?</p> <p>d) Can you pick something up from the floor by bending forward?</p> <p>e) For shoulder protector: while wearing a full face helmet, can you turn your head and/or torso left and right? (Requirement e) is not applicable for protectors to be inserted or incorporated into the garments).</p> <p>f) Can you confirm that the adjustment system, if present, does not cause discomfort?</p> <p>g) Does the adjustment system, if present, transmit confidence to the assessor that keeps the protector firmly and comfortably on its place during and after all of the above exercises?</p>	Pass												
7	<p>Marking</p> <p>The marking shall include the following information:</p> <table><tr><td>a) number and year of this European Standard (EN 1621-1:2012);</td><td>NT</td></tr><tr><td>b) name and trade mark of the manufacturer or his authorised representative in the European Union;</td><td>NT</td></tr><tr><td>c) identification of the product type, commercial name or code;</td><td>NT</td></tr><tr><td>d) a graphical representation, as shown in Figure 4, shall be included showing:</td><td>---</td></tr></table>	a) number and year of this European Standard (EN 1621-1:2012);	NT	b) name and trade mark of the manufacturer or his authorised representative in the European Union;	NT	c) identification of the product type, commercial name or code;	NT	d) a graphical representation, as shown in Figure 4, shall be included showing:	---					
a) number and year of this European Standard (EN 1621-1:2012);	NT													
b) name and trade mark of the manufacturer or his authorised representative in the European Union;	NT													
c) identification of the product type, commercial name or code;	NT													
d) a graphical representation, as shown in Figure 4, shall be included showing:	---													



	1) the category of the protector in accordance with Clause 4 (e.g. "S" for shoulder protector) and the type A or B in accordance with Table 2,	NT
	2) the performance level concerning the ambient impact test in accordance with Table 2,	NT
	3) the symbol "T+" if the high temperature impact test is passed (if the test is not claimed, the space is vacant),	NT
	4) the symbol "T-" if the low temperature impact test is passed (if the test is not claimed, the space is vacant).	NT
	Each protector shall be marked. The marking shall be:	
	e) on the product itself or on labels permanently attached to the product;	NT
7	f) affixed so as to be visible and legible;	NT
	g) durable to the appropriate number of cleaning processes.	NT
8	Information supplied by the manufacturer	
	The protector shall be supplied to the customer with information written at least in the official language(s) of the country of destination. All information shall be unambiguous.	NT
	The following information shall be given:	---
	a) name and full address of the manufacturer and/or his authorised representative;	NT
	b) product identification in accordance with 7 c) and d);	NT
	c) number of the European Standard and year of publication (EN 1621-1:2012);	NT
	d) explanation of the graphical symbol and other symbols used;	NT
	e) instruction for use:	---
	1) fitting, how to put on and off, if relevant;	NT
	2) performance of impact attenuation as recorded during technical tests;	NT
	3) limitations on use (e.g. temperature range, exchange after being exposed to an impact, ageing);	NT
	4) instructions for storage and maintenance;	NT
	5) instruction for cleaning;	NT
	6) appropriate warning against problems which could arise from particular properties or misuse, or alteration or ageing of the protector (e.g. cutting off parts, chemical contaminations);	NT
	7) if helpful illustrations, part numbers etc. shall be added;	NT
	f) the type of packaging suitable for transport if relevant;	NT
	g) size of the user(s) for whom the protector is intended.	NT



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Model: 47900-5918 (S)

Type: A

Region: K

Level: 1

Annex 1: Force transmission test result

Test Specification: EN 1621-1:2012-6.3

Ambient temperature at time of test: 22.1 °C

Ambient temperature at time of test: 22.1 °C									
Samples No.	Test area	Test site	Impact energy (J)	Peak force (KN)	Requirement for single value	Result	Mean value (KN)	Requirement for mean value	Result
Ambient No.1	A	1	50.6	27.06	Level 1: Area A ≤35KN Area B and C ≤50KN	Pass	28.04	Level 1 ≤35KN	Pass
	B	2	50.0	24.04		Pass			
	C	3	50.1	33.02		Pass			
Ambient No.2	A	4	49.9	26.44		Pass	27.49		
	B	5	50.3	25.28		Pass			
	C	6	49.8	30.74		Pass			
Ambient No.3	A	7	50.0	24.51		Pass	25.35		
	B	8	49.7	25.64		Pass			
	C	9	50.1	25.90		Pass			

Model: 47900-5918 (M)

Type: A

Region: K

Level: 1

Annex 1: Force transmission test result

Test Specification: EN 1621-1:2012-6.3

Ambient temperature at time of test: 22.1 °C

Samples No.	Test area	Test site	Impact energy (J)	Peak force (KN)	Requirement for single value	Result	Mean value (KN)	Requirement for mean value	Result
Ambient No.1	A	1	50.1	26.82	Level 1: Area A≦35KN Area B and C ≦50KN	Pass	29.05	Level 1≦35KN	Pass
	B	2	49.6	26.17		Pass			
	C	3	49.8	34.16		Pass			
Ambient No.2	A	4	50.3	25.97		Pass	27.73		
	B	5	50.2	26.16		Pass			
	C	6	50.1	31.05		Pass			
Ambient No.3	A	7	50.0	24.63		Pass	25.26		
	B	8	49.6	26.17		Pass			
	C	9	49.8	24.98		Pass			



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Model: 47900-5918 (L)

Type: A

Region: K

Level: 1

Annex 1: Force transmission test result

Test Specification: EN 1621-1:2012-6.3

Ambient temperature at time of test: 22.1 °C

Ambient temperature at time of test: 22.1 °C									
Samples No.	Test area	Test site	Impact energy (J)	Peak force (KN)	Requirement for single value	Result	Mean value (KN)	Requirement for mean value	Result
Ambient No.1	A	1	49.8	26.87	Level 1: Area A ≤ 35KN Area B and C ≤ 50KN	Pass	28.53	Level 1 ≤ 35KN	Pass
	B	2	49.9	25.06		Pass			
	C	3	50.1	33.67		Pass			
Ambient No.2	A	4	50.3	25.74		Pass	27.64		
	B	5	50.4	26.13		Pass			
	C	6	49.9	31.05		Pass			
Ambient No.3	A	7	49.8	25.06		Pass	25.47		
	B	8	50.3	26.37		Pass			
	C	9	50.1	24.98		Pass			

Model: 47900-5918 (XL)

Type: A

Region: K

Level: 1

Annex 1: Force transmission test result

Test Specification: EN 1621-1:2012-6.3

Ambient temperature at time of test: 22.1 °C

Samples No.	Test area	Test site	Impact energy (J)	Peak force (KN)	Requirement for single value	Result	Mean value (KN)	Requirement for mean value	Result
Ambient No.1	A	1	50.3	26.81	Level 1: Area A ≤ 35KN Area B and C ≤ 50KN	Pass	28.52	Level 1 ≤ 35KN	Pass
	B	2	50.4	25.06		Pass			
	C	3	50.2	33.69		Pass			
Ambient No.2	A	4	50.0	26.17		Pass	27.82		
	B	5	49.9	26.05		Pass			
	C	6	50.0	31.25		Pass			
Ambient No.3	A	7	50.1	25.10		Pass	25.78		
	B	8	50.2	26.31		Pass			
	C	9	49.9	25.93		Pass			



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

SGS Ref No.: CAN20-090064

Test Requested	Result
pH value	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
CAN20-090064.001	Wine red fabric(inside)
CAN20-090064.002	Black fabric(binding)
CAN20-090064.003	Black mesh sheet
CAN20-090064.004	Gray mesh sheet
CAN20-090064.005	Black fabric(inside)
CAN20-090064.006	Gray fabric(binding)
CAN20-090064.007	Black fabric

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 3071:2005, analysis was performed by pH meter.

Test Item(s)	001	002	003
pH value	7.5	6.4	6.4
Test Item(s)	004	005	006
pH value	6.9	8.7	6.7


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Test Item(s) 007
pH value 7.0

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

Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Azo Dyes

Test Method : With reference to ISO 14362-1:2017, analysis was performed by GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to ISO 14362-3:2017, analysis was performed by GC-MS//HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	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
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-Toluyldiamine						



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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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u> <i>Method A</i>	<i>Method B</i>
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
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-Toluyldiamine						
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.	Limit	Unit	MDL	003	
					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
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-Toluyldiamine						
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

Test Item(s)	CAS NO.	Limit	Unit	MDL	004	
					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



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4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane	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	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
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

Test Item(s)	CAS NO.	Limit	Unit	MDL	005	
					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 / 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	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



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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	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
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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	
					<i>Method A</i>	<i>Method B</i>
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 / 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	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	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



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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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	
					<i>Method A</i>	<i>Method B</i>
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
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-Toluyldiamine						
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

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.



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- (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.
- (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-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.
- (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:



Product Photo



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III. Colour Fastness to Perspiration.

1. SGS Ref. No.: SL92009266015501TX

- (A)RED INSIDE FABRIC
- (B)BLACK BINDING FABRIC
- (D)GREY MESH
- (E)BLACK INSIDE FABRIC
- (F)GREY BINDING FABRIC
- (G)BLACK FABRIC

Test Result
Colour Fastness To Water

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

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

-	Unit	(D)	(E)	(F)	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	-
Polyamide	-	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	-



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	Unit	(G)	Requirement
-	-	-	-
Change in Shade	-	4-5	-
Staining On Multi-fibre Stripe	-	-	-
Acetate	-	4-5	-
Cotton	-	4-5	-
Polyamide	-	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



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The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.



2. SGS Ref. No.: SL92009277256201TX

BLACK MESH

Test Result:

Colour Fastness To Water

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

-	Unit	(A)	Requirement
Change in Shade	-	4-5	-
Staining On Multi-fibre Stripe	-	-	-
Acetate	-	4-5	-
Cotton	-	4-5	-
Polyamide	-	4	-
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



Sample photos:

Sample photo	
Sample photo	



Test areas (S)	
Test areas (M)	



<p>Test areas (L)</p>	
<p>Test areas (XL)</p>	

End of Report

