



Test Report

No.: XMHL2408005601SD

Date: Oct 25, 2024

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HILBERT MAXWELL LLC
Calle Orense, 34. Torre Sur, Planta 5. 28020 Madrid, Spain

Sample Description : 5 mobile phone holder vests made of synthetic material.
Item No. : 1
Style No. : BLACK
SKU No. : i4S_Haraka1
Manufacturer : Dongguan JingHao Handbag Products Co., LTD Address: 523702, 4F&5F
Mingsheng industrial area, Shuibei village, Fenggang town, Dongguan City,
Guangdong province, China
Supplier : HILBERT MAXWELL LLC 2105 Vista Oeste St NW Suite E - 5351
Albuquerque, NM 87120, USA
Country of Origin : China
Country of Destination : Spain

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.

Sample Receiving Date : Aug 06, 2024
Test Performing Date : Aug 06, 2024 to Oct 25, 2024
Test Performed : Selected test(s) as requested by applicant
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. Xiamen Branch

Terry Hong
Authorized Signatory



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SGS Reference No.: XMN24-0015729.

	Test Requirement	Conclusion
1	Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds	Pass
2	Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006- AZO Dyes	Pass
3	Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
4	Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate	Pass
5	Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead(coating)	Pass
6	Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead (Metal)	Pass
7	Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead (Non-metal)	Pass
8	Entry 23 of Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Cadmium and its compounds	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A3	XMN24-0015729-0001.C003	Grey material sheet w/ white fabric (Reflective part)
SN2	A4	XMN24-0015729-0001.C004	Black fabric (Body)
SN3	A5	XMN24-0015729-0001.C005	Black plastic (Buckle)
SN4	A7	XMN24-0015729-0001.C007	Transparent plastic sheet (Pocket)
SN5	A8	XMN24-0015729-0001.C008	Silvery metal (Zipper puller)
SN6	A9	XMN24-0015729-0001.C009	Silvery metal (Button)
SN7	A10	XMN24-0015729-0001.C010	Grey foam sheet w/ white fabric
SN8	A11	XMN24-0015729-0001.C011	Translucent plastic sheet (inner)
SN9	A12	XMN24-0015729-0001.C012	Black foam (Inner) (Body)
SN10	A13	XMN24-0015729-0001.C013	Black rubber (Inner) (Elastic Band)
SN11	A15	XMN24-0015729-0001.C015	Black plastic sheet (Button)
SN12	A16	XMN24-0015729-0001.C016	Bright black fabric (Velcro loop)
SN13	A17	XMN24-0015729-0001.C017	Black, blue, white fabric (Elastic band)
SN14	A18	XMN24-0015729-0001.C018	Black plastic (Zipper teeth)
SN15	A19	XMN24-0015729-0001.C019	Black metal (Rivet - Ring)
SN16	A20	XMN24-0015729-0001.C020	Black metal (Button)
SN17	A21	XMN24-0015729-0001.C021	Bright black plastic (Velcro hook)



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SN ID	Sample No.	SGS Sample ID	Description
SN18	A22	XMN24-0015729-0001.C022	Dull purple fabric (Pocket)
SN19	A23	XMN24-0015729-0001.C023	Black fabric (Band)
SN20	(A/A)1	XMN24-0015729-0002	White coating on fabric (Logo) / Black coating on metal (Zipper)
SN21	(A/A)2	XMN24-0015729-0003	Blue coating on fabric (Logo) / Black coating on metal (Button)
SN22	A3+A10	XMN24-0015729-0004	Grey material sheet w/ white fabric (Reflective part) + Grey foam sheet w/ white fabric
SN23	A5+A15	XMN24-0015729-0005	Black plastic (Buckle) + Black plastic sheet (Button)
SN24	A7+A18+A21	XMN24-0015729-0006	Transparent plastic sheet (Pocket) + Black plastic (Zipper teeth) + Bright black plastic (Velcro hook)
SN25	A11+A12+A13	XMN24-0015729-0007	Translucent plastic sheet (inner) + Black foam (Inner) (Body) + Black rubber (Inner) (Elastic Band)
SN26	(A/A)1+(A/A)2	XMN24-0015729-0011	White coating on fabric (Logo) / Black coating on metal (Zipper) + Blue coating on fabric (Logo) / Black coating on metal (Button)
SN27	A3+A4+A22	XMN24-0015729-0012	Grey material sheet w/ white fabric (Reflective part) + Black fabric (Body) + Dull purple fabric (Pocket)
SN28	A16+A17+A23	XMN24-0015729-0013	Bright black fabric (Velcro loop) + Black, blue, white fabric (Elastic band) + Black fabric (Band)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated
- (5) Composite test has been performed and the result(s) is/are calculated using the minimum sample weight which applies to Test Method CPSC-CH-E1003.9.1 / CPSC-CH-E1002-08.3
- (6) Composite test has been performed and the result(s) is/are calculated using the total mixed sample



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Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organostannic compounds

Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3+A10	A5+A15	A7+A18+A21
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND	ND	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND	ND	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND	ND	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND	ND	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND	ND	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND	ND	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND	ND	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A11+A12+A13	(A/A)1+(A/A)2
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND	ND
Conclusion				Pass	Pass



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Test Method: With reference to ISO 17353:2004, analysis was performed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A3+A4+A2 2	A16+A17+ A23
Tributyltin(TBT) by Weight of Tin	-	%	0.01	ND	ND
Triphenyltin(TPhT) by Weight of Tin	-	%	0.01	ND	ND
Tricyclohexyltin(TCyT) by Weight of Tin	-	%	0.01	ND	ND
Trioctyltin(TOT) by Weight of Tin	-	%	0.01	ND	ND
Tripropyltin (TPT) by weight of Tin	-	%	0.01	ND	ND
Trimethyltin(TMT) by Weight of Tin	-	%	0.01	ND	ND
Σ of Tri substituted organotin compounds by Weight of Tin	0.1	%	-	ND	ND
Dibutyltin(DBT) by Weight of Tin	0.1	%	0.01	ND	ND
Diocetyl tin(DOT) by Weight of Tin	0.1	%	0.01	ND	ND
Conclusion				Pass	Pass

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

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

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3+A4+A22	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-Naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-Aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-Nitro-o-Toluidine/2-Amino-4- Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m- Phenylenediamine/2,4- Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3+A4+A22	
3,3'-Dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-Dimethybenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	30	mg/kg	5	ND	ND
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-Oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-Thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-Toluidine	95-53-4	30	mg/kg	5	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA	95-80-7	30	mg/kg	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-Aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
Conclusion					Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A16+A17+A23	
					Direct Reduction *	Colorant Extraction *
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-Chlor-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-Naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-Aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-Chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-Dimethybenzidine	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



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A16+A17+A23	
p-Cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-Oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-Thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-Toluidine	95-53-4	30	mg/kg	5	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA	95-80-7	30	mg/kg	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-Aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
Conclusion					Pass	Pass

Notes:

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

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

(2) EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

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

Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3+A10	A5+A15	A7+A18+A21
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3+A10	A5+A15	A7+A18+A21
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	(A/A)1+(A/A)2
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND
Conclusion					Pass



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Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A3+A10	A5+A15	A7+A18+A21
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate(DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Sum of (DBP,BBP,DEHP, DIBP)	-	0.1	%	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A11+A12+A13	(A/A)1+(A/A)2
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND
Diisobutyl Phthalate(DIBP)	84-69-5	0.1	%	0.005	ND	ND
Sum of (DBP,BBP,DEHP, DIBP)	-	0.1	%	-	ND	ND
Conclusion					Pass	Pass



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Notes:

DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information.

Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead(coating)

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	(A/A)1+(A/A)2
Total Lead (Pb)	500	mg/kg	20	ND
Conclusion	Pass			

Notes:

When the result is equal to or greater than 500 mg/kg, the limit shall not apply where it can be demonstrated that the rate of Lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm²/h (equivalent to 0.05 µg/g/h), further migration test is requested per EN 16711-3: 2019 for compliance.



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Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead (Metal)

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A19
Total Lead (Pb)	500	mg/kg	20	39	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A20
Total Lead (Pb)	500	mg/kg	20	ND
Conclusion				Pass

Notes:

When the result is equal to or greater than 500 mg/kg, the limit shall not apply where it can be demonstrated that the rate of Lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm²/h (equivalent to 0.05 µg/g/h), further migration test is requested per EN 16711-3: 2019 for compliance.

Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead (Non-metal)

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A3+A10	A5+A15	A7+A18+A21
Total Lead (Pb)	500	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

When the result is equal to or greater than 500 mg/kg, the limit shall not apply where it can be demonstrated that the rate of Lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm²/h (equivalent to 0.05 µg/g/h), further migration test is requested per EN 16711-3: 2019 for compliance.



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Entry 23 of Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Cadmium and its compounds

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A3+A10	A5+A15	A7+A18+A21
Cadmium(Cd)	0.01	%	0.0005	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A11+A12+A13
Cadmium(Cd)	0.01	%	0.0005	ND
Conclusion				Pass

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	(A/A)1+(A/A)2
Cadmium(Cd)	0.1	%	0.0005	ND
Conclusion				Pass

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



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SGS Reference No.: XMN24-0017980.

	Test Requirement	Conclusion
1	Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
2	Nickel	See Results
3	Halogen	See Results
4	Screening Test for Nickel Release	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	XMN24-0020047-0001.C001	Black foam
SN2	A2	XMN24-0017980-0001.C002	Black fabric (Body)
SN3	A3	XMN24-0017980-0001.C003	Black metal (Rivet - Ring)

Remarks:

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

Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND
Conclusion					Pass



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Nickel

Test Method: With reference to US EPA 3050B-1996, analysis was performed by ICP-OES or AAS.

Test Item(s)	Unit(s)	MDL	A3
Nickel (Ni)	mg/kg	5	4775

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A1	A2
Fluorine(F)	mg/kg	20	ND	ND
Chlorine(Cl)	mg/kg	50	390	ND
Bromine(Br)	mg/kg	50	ND	ND
Iodine(I)	mg/kg	50	ND	ND

Screening Test for Nickel Release

Test Method: With reference to CEN/TR 12471:2022.

Test Item(s)	A3
Nickel Release	Positive

Notes:

Negative = Indicates the absence of nickel based on the visual observation of colour change.

Positive = Indicates the presence of nickel based on the visual observation of colour change. In the event of a positive result with the screening test, manufacturers and importers are advised that the tested article may not be compliant with its respective limiting nickel release value.

Uncertain = The presence or absence of nickel is uncertain due to the result interference in visual observation of colour change. For samples with uncertain results, which for example can occur due to the presence of other metals such cobalt, copper and palladium masking any red colouration due to nickel, testing with EN 1811 is recommended.

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



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SGS Reference No.: XMN24-0021344.

	Test Requirement	Conclusion
1	Entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Nickel release	Pass

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	XMN24-0021344-0001.C001	Nickel color surfaced metal
SN2	A2	XMN24-0021344-0001.C002	Nickel color surfaced metal
SN3	A3	XMN24-0021344-0001.C003	Nickel color surfaced metal w/ black coating

Remarks:

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

Entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Nickel release

Test Method: With reference to EN 1811:2023, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1-Trial1	A1-Trial2	A1-Trial3
Volume of Test Solution	-	mL	-	7.89	7.89	7.89
Sample Area	-	cm ²	-	7.89	7.89	7.89
Whether performed by EN 12472:2020 or not	-	-	-	YES	YES	YES
Nickel Release	0.5	µg/cm ² /week	0.10	ND	ND	ND
Conclusion				Pass		



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Test Item(s)	Limit	Unit(s)	MDL	A2-Trial1	A2-Trial2	A2-Trial3
Volume of Test Solution	-	mL	-	12.19	12.19	12.19
Sample Area	-	cm ²	-	12.19	12.19	12.19
Whether performed by EN 12472:2020 or not	-	-	-	YES	YES	YES
Nickel Release	0.5	µg/cm ² /week	0.10	ND	0.12	ND
Conclusion				Pass		

Test Item(s)	Limit	Unit(s)	MDL	A3-Trial1	A3-Trial2	A3-Trial3
Volume of Test Solution	-	mL	-	10.80	10.80	10.80
Sample Area	-	cm ²	-	10.80	10.80	10.80
Whether performed by EN 12472:2020 or not	-	-	-	YES	YES	YES
Nickel Release	0.5	µg/cm ² /week	0.10	0.14	0.14	ND
Conclusion				Pass		

Notes:

(1) NO: Positive finding by Nickel spot test is observed based on CEN/TR 12471:2022. Simulation of wear and corrosion according to EN 12472:2020 has been not applied prior to the EN 1811:2023.

YES: Negative finding by Nickel spot test is observed based on CEN/TR 12471:2022. Simulation of wear and corrosion according to EN 12472:2020 has been applied prior to the EN 1811:2023.

(2) Combined measurement uncertainty is applied to compliance decision rule according to the clause 9.2.2, EN 1811:2023 as below:

Type of sample	Nickel Release (µg/cm ² /week)	
	PASS	FAIL
Article with Nickel release limit of 0.5µg/cm ² /week	≤0.88	> 0.88
Article with Nickel release limit of 0.2µg/cm ² /week	<0.35	≥ 0.35

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



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