Test Report

Report No.: STL2023101006E07 **Report Date: 2023-10-23** **Page: 1 of 18**

Applicant : Guangzhou Sien Leather Goods

Address : Floor 1-3,No.78, Changhong East Road, Baiyun District, Guangzhou

The following merchandise was submitted and identified by client as:

Sample Name : Please reference to next page(s).

Order No. : /

Style No. : HMBELGP4123DKB

Number of Sample : 25PCS

Received Date : 2023-10-10

Tested Date: : 2023-10-10 To 2023-10-18

Test Request :
1. Total Lead (Pb)/Total Cadmium (Cd)
2. Nickel Release
3. Banned Azo Dyes
4. Formaldehyde
5. pH value
6. Chlorinated Paraffins
7. Phthalates
8. Per- and polyfluoroalkyl substances (PFAS)

Test Method : Please reference to next page(s).

Test Result(s) : Please reference to next page(s).

Approved: Raymond

Technical Director

Test Report

Test Result(s)

1. Total Lead (Pb) & Total Cadmium (Cd):

Test Method: With reference to IEC 62321-5:2013 , analyzed by AAS.

Test Item(s)	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)					
			1	3	4	5	6	7
Lead (Pb)	10	500	N.D	N.D	N.D	17	14	15
Cadmium (Cd)	10	100	N.D	N.D	N.D	N.D	N.D	N.D
Conclusion			Pass	Pass	Pass	Pass	Pass	Pass

Test Item(s)	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)		
			8	9	10
Lead (Pb)	10	500	20	15	45
Cadmium (Cd)	10	100	N.D	N.D	N.D
Conclusion			Pass	Pass	Pass

Remark: 1) 0.1%=1000mg/kg

2) MDL = Method Detection Limit

3) N.D =Not Detection (<MDL)

Test Report

2. Nickel Release:

Test Method: With reference to EN 12472:2020 & EN 1811 :2011+A1:2015, and analyzed by AAS.

Test Item	MDL (μg/cm²/week)	Client's limit (μg/cm²/week)	Test result(μg/cm²/week)				
			4	5	6	7	8
Nickel Release	0.05	0.5	N.D	N.D	N.D	N.D	N.D
Conclusion			Pass	Pass	Pass	Pass	Pass

Test Item	MDL (μg/cm²/week)	Client's limit (μg/cm²/week)	Test result(μg/cm²/week)	
			9	10
Nickel Release	0.05	0.5	N.D	N.D
Conclusion			Pass	Pass

Remark: 1) μg/cm² /week = microgram per square centimeter per wee

2) MDL = Method Detection Limit

3) N.D =Not Detection (<MDL)

For products in direct contact with human skin for a long time, the nickel release limit is 0.5μg/cm² /week

4) When the nickel release value is greater than or equal to 0.88μg/cm² /week, the product is judged as unqualified.
When the nickel release value is less than 0.88 μg/cm² /week, the product is judged as qualified.

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3. Banned Azo Dyes

Test Method: With reference to ISO 14362-1:2017, analyzed by GC-MS.

No.	Test Item(s)	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)
					2
1	Biphenyl-4-ylamine/4-aminodiphenyl/ xenylamine	92-67-1	5	30	N.D
2	Benzidine	92-87-5	5	30	N.D
3	4-chloro-o-toluidine	95-69-2	5	30	N.D
4	2-naphthylamine	91-59-8	5	30	N.D
5	o-aminoazotoluene/4-amino-2',3-dimethy lazobenzene/4-o-tolylazo-o-toluidine△	97-56-3	5	30	N.D
6	2-amino-4-nitrotoluene/ 5-nitro-o-toluidine△	99-55-8	5	30	N.D
7	4-chloroaniline	106-47-8	5	30	N.D
8	4-methoxy-m-phenylenediamine	615-05-4	5	30	N.D
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane	101-77-9	5	30	N.D
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	5	30	N.D
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	5	30	N.D
12	3,3'-dimethylbenzidine/4,4-bi-o-toluidine	119-93-7	5	30	N.D
13	4,4'-methylenedi-o-toluidine	838-88-0	5	30	N.D
14	6-methoxy-m-toludine/p-cresidine	120-71-8	5	30	N.D
15	4,4'-methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4-methylene-dianiline	101-14-4	5	30	N.D
16	4,4'-oxydianiline	101-80-4	5	30	N.D
17	4,4'-thiodianline	139-65-1	5	30	N.D

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No.	Test Item(s)	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)
					2
18	o-toluidine/2-aminotoluene	95-53-4	5	30	N.D
19	4-methyl-m-phenylenediamine/ 2,4-toluylendiamine	95-80-7	5	30	N.D
20	2,4,5-trimethylaniline	137-17-7	5	30	N.D
21	o-anisidine/2-methoxyaniline	90-04-0	5	30	N.D
22	4-aminoazobenzene◇	60-09-3	5	30	N.D
23	2,4-xylidine	95-68-1	5	30	N.D
24	2,6-xylidine	87-62-7	5	30	N.D
25	4-chloro-o-toluidinium chloride+	3165-93-3	5	30	N.D
26	2-Naphthylammoniumacetate+	553-00-4	5	30	N.D
27	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate+	39156-41-7	5	30	N.D
28	2,4,5-trimethylaniline hydrochloride+	21436-97-5	5	30	N.D
Conclusion					Pass

Remark:

1) 0.1%=1000mg/kg
2) MDL = Method Detection Limit
3) N.D =Not Detection (<MDL)
4) "△" = The CAS No. 97-56-3 (No.5) and 99-55-8 (No.6) are further reduced to CAS No.95-53-4 (No.18) and 95-80-7(No.19).
5) "◇" =Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3).Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017
6) + = Result was back calculated based on the determination of its amine

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4. Formaldehyde:

Test Method: With reference to ISO 14184-1:2011 , analyzed by UV-VIS.

Test Item(s)	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)	
			2	3
Formaldehyde	16	75	N.D	30
Conclusion			Pass	Pass

Remark: 1) 0.1%=1000mg/kg

2) MDL = Method Detection Limit

3) N.D =Not Detection(<MDL)

5. pH value:

Test Method: With reference to ISO 3071:2020, analyzed by pH-meter.

Test Item	Client's limit	Test result
		2
pH value	4.5 -7.5	6.5
Conclusion		Pass

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6. Chlorinated Paraffins：

Test Method： With reference to EPA 3550C:2007 , analyzed by GC-MS.

Test Item(s)		MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)
				1
Short Chain Chlorinated Paraffins	SCCP	50	1000	N.D
Medium Chain Chlorinated Paraffins	MCCP	50	1000	N.D
Conclusion				Pass

Remark： 1) 0.1%=1000mg/kg

2) MDL = Method Detection Limit

3) N.D =Not Detection (<MDL)

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7. Phthalates :

Test Method: With reference to EN 14372:2004 , analyzed by GC-MS.

Test Item(s)		CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)	
					1	3
Bis(2-ethylhexyl) Phthalate	(DEHP)	117-81-7	50	--	N.D	N.D
Benzylbutyl Phthalate	(BBP)	85-68-7	50	--	N.D	N.D
Dicyclohexyl phthalate	(DCHP)	84-61-7	50	--	N.D	N.D
Dibutyl Phthalate	(DBP)	84-74-2	50	--	N.D	N.D
Di-n-octyl Phthalate	(DNOP)	117-84-0	50	--	N.D	N.D
Diisononyl Phthalate	(DINP)	28553-12-0 68515-48-0	50	--	N.D	N.D
Diisodecyl Phthalate	(DIDP)	26761-40-0 68515-49-1	50	--	N.D	N.D
Dimethyl phthalate	(DMP)	131-11-3	50	--	N.D	N.D
Diethyl phthalate	(DEP)	84-66-2	50	--	N.D	N.D
Diisobutyl Phthalate	(DIBP)	84-69-5	50	--	N.D	N.D
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	(DHNUP)	68515-42-4	50	--	N.D	N.D
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich	(DIHP)	71888-89-6	50	--	N.D	N.D
Bis(2-methoxyethyl) phthalate	(DMEP)	117-82-8	50	--	N.D	N.D
Di-iso-pentyl phthalate	(DIPP)	605-50-5	50	--	N.D	N.D
N-pentyl-isopentylphthalate	(NPIPP)	776297-69-9	50	--	N.D	N.D
1,2-Benzenedicarboxylic acid,dipentylester, branched and linear	(DPP)	84777-06-0	50	--	N.D	N.D

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Test Item(s)		CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result (mg/kg)	
					1	3
Di-n-hexyl Phthalate	(DnHP)	84-75-3	50	--	N.D	N.D
Di-n-pentyl phthalate	(DPENP)	131-18-0	50	--	N.D	N.D
Di-hexylphthalate,branched and linear		68515-50-4	50	--	N.D	N.D
1,2-Benzenedicarboxylic acid, di-C6-10 alkyl esters;1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)		68515-51-5 68648-93-1	50	--	N.D	N.D
Diisohexyl phthalate	(DIHxP)	71850-09-4	50	--	N.D	N.D
Sum of above phthalates			--	1000	N.D	N.D
Conclusion					Pass	Pass

Remark: 1) 0.1%=1000mg/kg

2) MDL = Method Detection Limit

3) N.D =Not Detection (<MDL)

Test Report

8. Per- and polyfluoroalkyl substances (PFAS) :

Test Method: With reference to : CEN/TS 15968:2010, analyzed by LC-MS-MS & GC-MS.

PFOS and Related Substances

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.01	1	N.D	N.D
Perfluorooctanesulfonic acid, potassium salt (PFOS-K)	2795-39-3	0.01	1	N.D	N.D
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	0.01	1	N.D	N.D
Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0	0.01	1	N.D	N.D
Perfluorooctanesulfonic acid, ammomium salt (PFOS-NH4)	29081-56-9	0.01	1	N.D	N.D
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH2(C2H4OH)2)	70225-14-8	0.01	1	N.D	N.D
Perfluorooctanesulfonic acid, tetraethylammomium salt (PFOS-N(C2H5)4)	56773-42-3	0.01	1	N.D	N.D
N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	0.01	1	N.D	N.D
N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	0.01	1	N.D	N.D
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	0.01	1	N.D	N.D
2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	0.01	1	N.D	N.D
Perfluoro-1-octanesulfonyl fluoride (POSF)	307-35-7	0.01	1	N.D	N.D
Perfluorooctane sulfonamide (PFOSA)	754-91-6	0.01	1	N.D	N.D
Didecyldimethylammonium perfluorooctane sulfonate (PFOS?N(C10H21)2(CH3)2)	251099-16-8	0.01	1	N.D	N.D
Conclusion				Pass	Pass

Test Report

PFOA and Its Salts

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	0.025	N.D	N.D
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	0.01	0.025	N.D	N.D
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	0.01	0.025	N.D	N.D
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	0.01	0.025	N.D	N.D
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	0.01	0.025	N.D	N.D
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.01	0.025	N.D	N.D
Conclusion				Pass	Pass

Test Report

PFOA-related Substances

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.01	1	N.D	N.D
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.1	1	N.D	N.D
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.1	1	N.D	N.D
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	0.1	1	N.D	N.D
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.1	1	N.D	N.D
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.1	1	N.D	N.D
Perfluorooctane iodide (PFOI)	507-63-1	0.1	1	N.D	N.D
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA)	27854-31-5	0.1	1	N.D	N.D
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C4H9)4)	882489-14-7	0.01	1	N.D	N.D
Sum of PFOA-related Substances		--	1	N.D	N.D
Conclusion				Pass	Pass

Test Report

C9-C14 Perfluorocarboxylic acids (PFCA) and its salts

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
Perfluorononane Acid (PFNA)	375-95-1	0.01	--	N.D	N.D
Sodium Perfluorononanoate (PFNA-Na)	21049-39-8	0.01	--	N.D	N.D
Ammonium Perfluorononanoate (PFNA-NH4)	4149-60-4	0.01	--	N.D	N.D
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.01	--	N.D	N.D
Perfluorodecane Acid (PFDA)	335-76-2	0.01	--	N.D	N.D
Sodium Perfluorodecanoate (PFDA-Na)	3830-45-3	0.01	--	N.D	N.D
Ammonium Perfluorodecanoate (PFDA-NH4)	3108-42-7	0.01	--	N.D	N.D
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.01	--	N.D	N.D
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.01	--	N.D	N.D
Ammonium Perfluorododecanoate (PFDoDA-NH4)	3793-74-6	0.01	--	N.D	N.D
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.01	--	N.D	N.D
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	0.01	--	N.D	N.D
Sum of(PFCA) and its salts		--	0.025	N.D	N.D
Conclusion				Pass	Pass

Test Report

C9-C14 Perfluorocarboxylic acids (PFCA) related substances

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
Perfluorodecane sulfonic acid (PFDSA)	335-77-3	0.01	--	N.D	N.D
Sodium Perfluorodecanesulfonate (PFDS-Na)	2806-15-7	0.01	--	N.D	N.D
Potassium Perfluorodecanesulfonate (PFDS-K)	2806-16-8	0.01	--	N.D	N.D
Ammonium Perfluorodecanesulfonate (PFDS-NH4)	67906-42-7	0.01	--	N.D	N.D
1H,1H,2H,2H-Perfluoro-1-dodecaol (10:2 FTOH)	865-86-1	0.1	--	N.D	N.D
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.1	--	N.D	N.D
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.1	--	N.D	N.D
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3)	101947-16-4	0.1	--	N.D	N.D
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnDA / 8:3 FTCA)	34598-33-9	0.01	--	N.D	N.D
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.01	--	N.D	N.D
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH)	678-39-7	0.1	--	N.D	N.D
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.01	--	N.D	N.D
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.01	--	N.D	N.D
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA)	27854-31-5	0.01	--	N.D	N.D
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C4H9)4)	882489-14-7	0.01	--	N.D	N.D
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.1	--	N.D	N.D

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Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.1	--	N.D	N.D
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.01	--	N.D	N.D
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	0.1	--	N.D	N.D
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.1	--	N.D	N.D
Sum of (PFCA) related substances		--	0.26	N.D	N.D
Conclusion				Pass	Pass

PFHxS and its salts

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.01	--	N.D	N.D
Perfluorohexanesulfonic acid, sodium salt (PFHxS-Na)	82382-12-5	0.01	--	N.D	N.D
Perfluorohexanesulfonic acid, potassium salt (PFHxS-K)	3871-99-6	0.01	--	N.D	N.D
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9	0.01	--	N.D	N.D
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH4)	68259-08-5	0.01	--	N.D	N.D
Sum of PFHxS and its salts		--	0.025	N.D	N.D
Conclusion				Pass	Pass

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PFHxS-related Substances

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-methyl-(N-Me-FHxSA)	68259-15-4	0.01	--	N.D	N.D
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro- (PFHxSA)	41997-13-1	0.01	--	N.D	N.D
Sum of PFHxS-related compounds		--	1	N.D	N.D
Conclusion				Pass	Pass

FTOH

Substances	CAS No.	MDL (mg/kg)	Client's limit (mg/kg)	Test result(mg/kg)	
				1	2
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.1	0.1	N.D	N.D
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.1	0.1	N.D	N.D
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	0.1	0.1	N.D	N.D
1H,1H,2H,2H-Perfluoro-1-dodecaol (10:2 FTOH)	865-86-1	0.1	0.1	N.D	N.D
H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.1	0.1	N.D	N.D
Conclusion				Pass	Pass

Remark: 1) 0.1%=1000mg/kg

2) MDL = Method Detection Limit

3) N.D =Not Detection (<MDL)

Remark: 1) According to the requirements of customers, all the test results are quoted from the report STL2023101006E03.

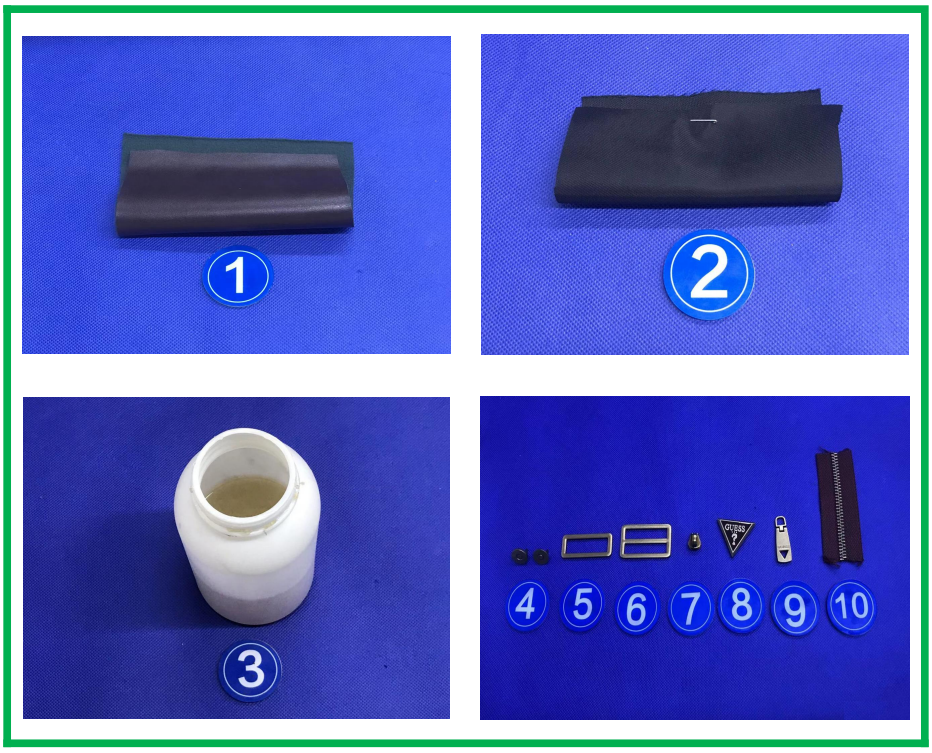
Test Report

Test Material list:

No.	Sample Description	Location
1	Dark brown synthetic with black fabric	RE638-807 # PU- Dark Brown
2	Black Fabric	XDL-034 Lining - Black
3	Light Yellow Glue	Glue
4	Gold metal	GUESS-30mm Metal Triangle-Old Gold
5	Gold metal	Magnet-Old Gold (Male)
6	Gold metal	Square Buckle-Old Gold
7	Gold metal	Buckle -Old Gold
8	Gold metal	Metal Zipper Slider-Old Gold
9	Gold metal	GUESS-38mm Puller-Old Gold
10	Gold metal	5#Metal Zipper

Test Report

Sample(s) Photo



The following pictures are provided by the customer:

/

---------- End of Report ----------