

Test Report

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BAOTEK INDUSTRIAL MATERIALS LTD.

NO. 277, MING FENG ROAD, YANG MEI COUNTY, TAO YUAN HSIEN, TAIWAN, R. O. C.



The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : E-GLASS FABRIC
Style/Item No. : ALL TYPES (7628,2116,1080,ETC...)
Sample Receiving Date : 2010/04/15
Testing Period : 2010/04/15 TO 2010/04/26

=====
Test Result(s) : Please refer to next page(s).

Conclusion : 1. Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

2. Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.2-08 of German ZLS and its amendments.

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME NO.1 : WHITE SHEET

Test Item (s):	Unit	Method	MDL	Result	Limit
				NO.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	8	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	-
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl			5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl			5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-
Sum of PBDEs			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether			5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether			5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether			5	n.d.	-
Nonabromodiphenyl ether	5	n.d.	-		
Decabromodiphenyl ether	5	n.d.	-		

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Test Item (s):	Unit	Method	MDL	Result	Limit
				NO.1	
Polynuclear Aromatic Hydrocarbons (PAHs)					
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.	-
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.	-
Anthracene (CAS No.: 000120-12-7)			0.2	n.d.	-
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	n.d.	-
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.	-
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	n.d.	-
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.	-
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.	-
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.	-
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.	-
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.	-
Fluorene (CAS No.: 000086-73-7)			0.2	n.d.	-
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.	-
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.	-
Phenanthrene (CAS No.: 000085-01-8)			0.2	n.d.	-
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.	-
Sum of 16 PAHs			-	n.d.	-

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Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

Reference information for PAHs:

Requirement of ZEK 01.2-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 16 EPA-PAH (mg/kg)*	<MDL (<0.2)**	10	200

Remark :

* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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Test Report

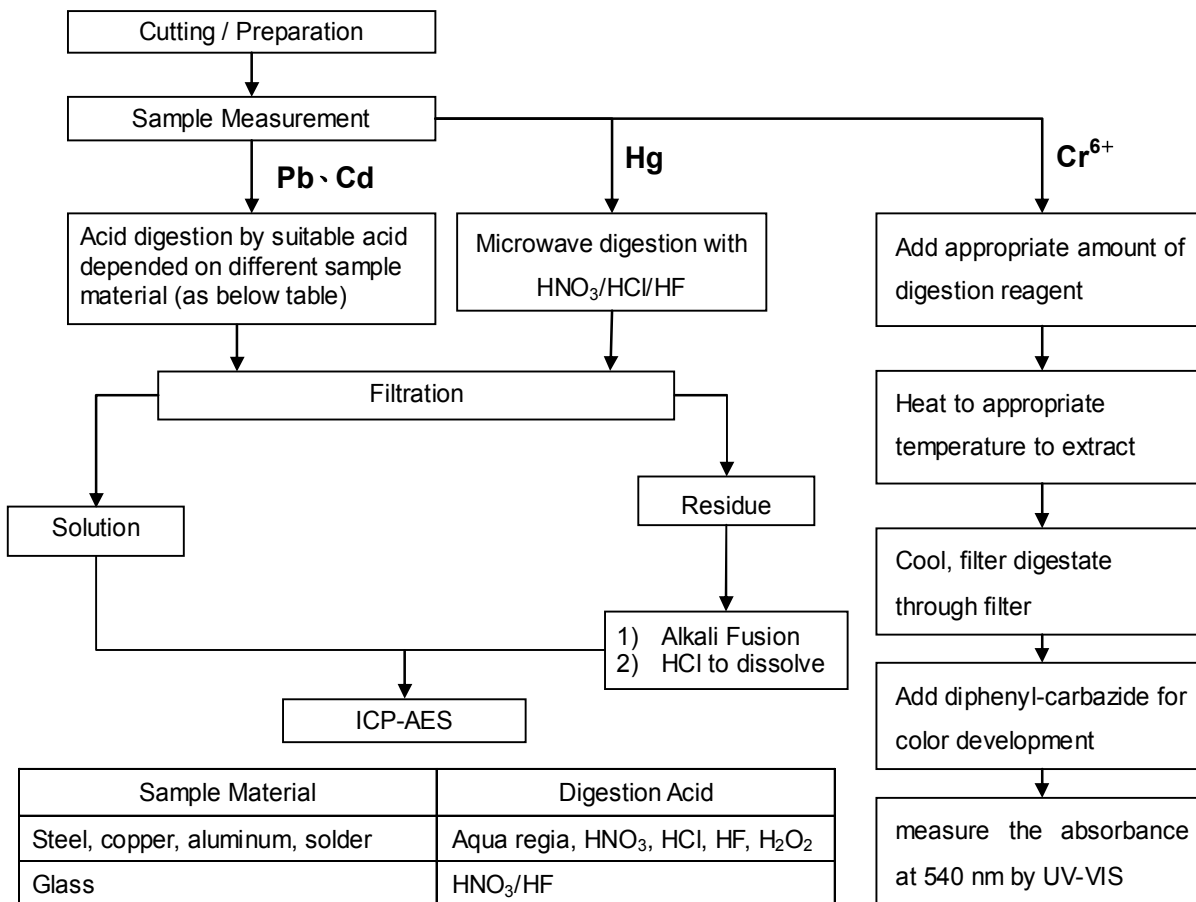
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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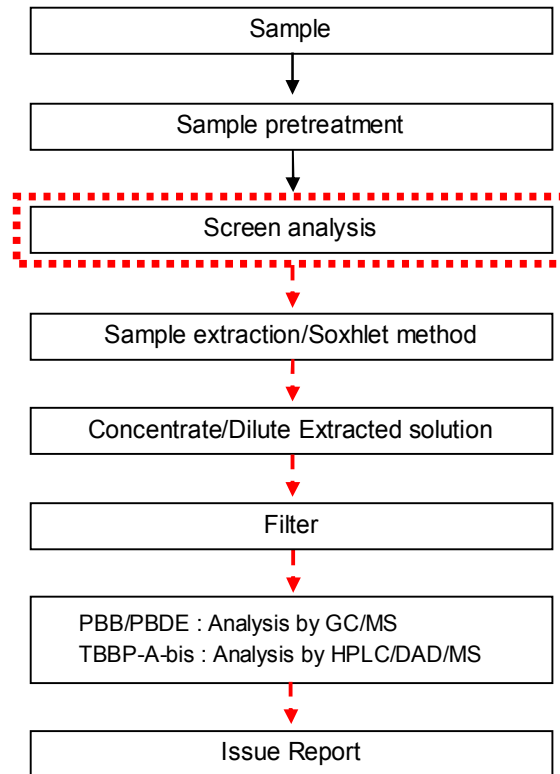


Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process Confirmation process ->



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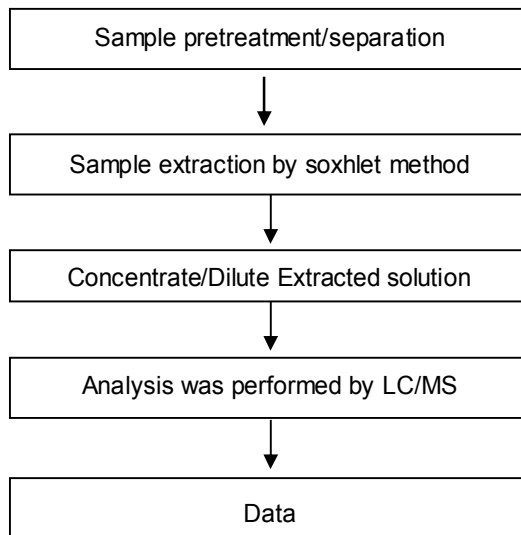
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Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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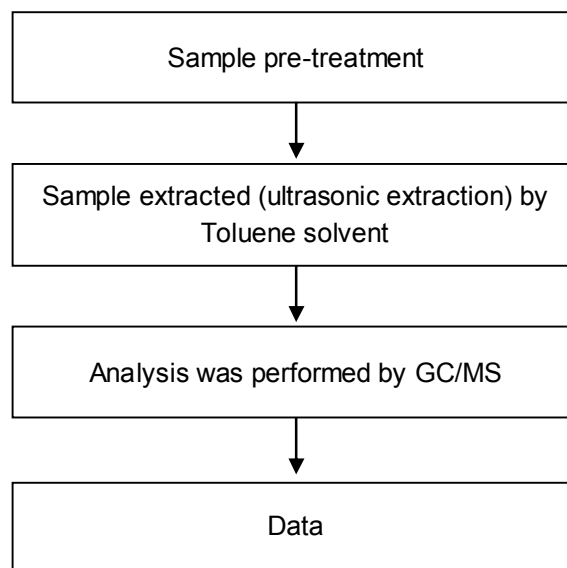
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PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 1) Name of the person who made measurement: Andy Shu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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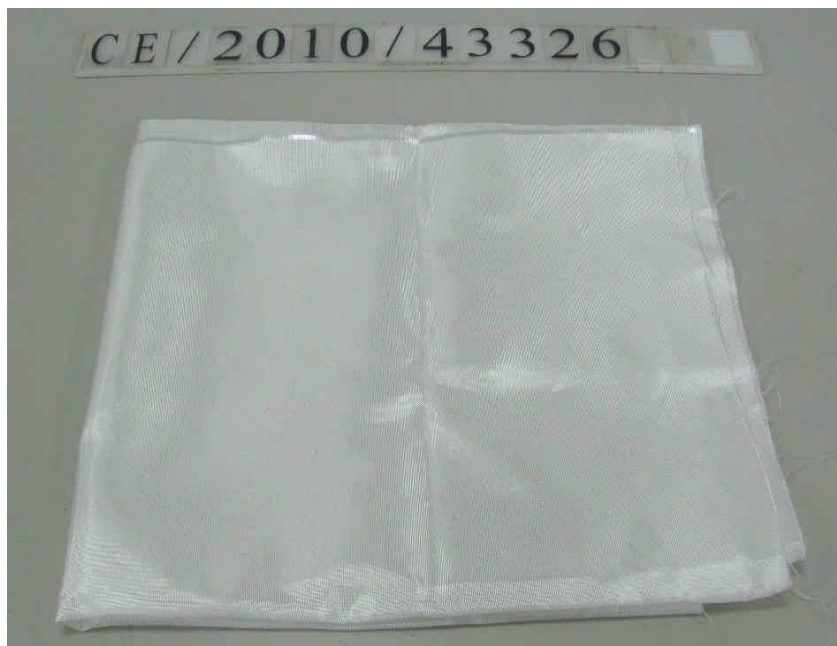
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