

TEST REPORT

No. : XMIN2010010132CM

Date : Nov 16, 2021

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CUSTOMER NAME: JIANGYIN YOUCHUANG INTERNATIONAL TRADE CO.,LTD
ADDRESS: NO.5 JINWAN LOGISTICS DECORATION CITY,ZHOZHOU TOWN,
JIANGYIN CITY,JIANGSU PROVINCE,CHINA

Sample Name : VINYL FLOORING

Other Information : 4mm

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHIN2010067193CM; GZIN2010059016MR; CANMLC2018471801

Date of Receipt : Oct 19, 2021

Testing Start Date : Oct 19, 2021

Testing End Date : Nov 09, 2021

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co. , Ltd Xiamen Branch
Testing Center



Bryan Hong
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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Summary of Results:

No.	Test Item	Test Method	Result
1	Dynamic Coefficient of Friction	EN 13893:2002	0.48
2	Thermal Conductivity	EN 12667:2001 Heat Flow Meter Method	0.125 W/(m·K)
3	Fire classification for burning behavior of flooring material	EN 13501-1:2018 Clause 9 & EN ISO 9239-1:2010 & EN ISO 11925-2:2020	Bfl-s1
4	PBDEs	IEC 62321-6:2015	ND
5	Pentachlorophenol (PCP)	EN 14041:2018 Annex B & EN 12673:1999	ND
6	Elementary Analysis	EN 1122:2001	ND
7	Formaldehyde	EN 717-1:2004	ND
8	Phthalates	EN 14041:2018 Annex F	See Result
9	Chlorinated Paraffins	ISO 18219:2015	ND
10	Polycyclic Aromatic Hydrocarbons (PAHs)	EN 14041:2018 Annex E	ND
11	Organotin Compounds	ISO/TS 16179:2012	See Result
12	Perfluorooctanoic acid (PFOA) and its salts	CEN/TS 15968:2010	ND

- Note: 1. Test item 2 was carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
 2. Test item 3~12 were carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.
 3. ND = Not Detected (< MDL)



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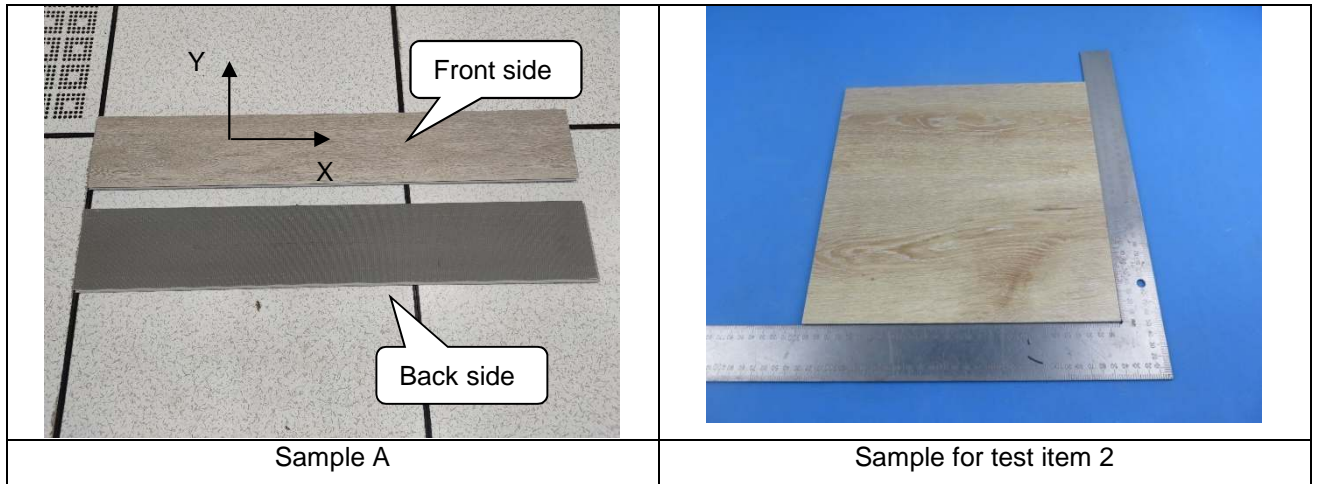
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Original Sample Photo:



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1. Test Item: Dynamic Coefficient of Friction

Sample Description: Flooring, See photo

Test Method: EN 13893:2002

Test Condition:

Specimen dimension: 935mm×150mm×4mm

Testing surface: front side, see photo

Testing speed: 0.20m/s

Test result:

Result	Requirement in EN 14041:2018	The way of expressing the performance
Dynamic coefficient of friction: 0.48	<p>The slip resistance performance of a floor covering, shall be determined by test as dynamic coefficient of friction, μ, in accordance with EN 13893 under dry and non-contaminated conditions.</p> <p>The coefficient of friction, μ, shall be declared, depending on the obtained result, as:</p> <p>a) $\mu < 0,30$; or b) $\mu \geq 0,30$.</p>	<p>Referenced: $\mu \geq 0,30$</p> <p>Pictogram:</p>

Note: All test specimens were cut from the sample.



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2. Test Item: Thermal Conductivity

Test Method: EN 12667:2001 Heat Flow Meter Method

Test Condition:

Specimen: 296mm×294mm×5.0mm, 1pc

Density: about 2086kg/m³

Mean temperature: 23°C

Temperature difference: 10°C

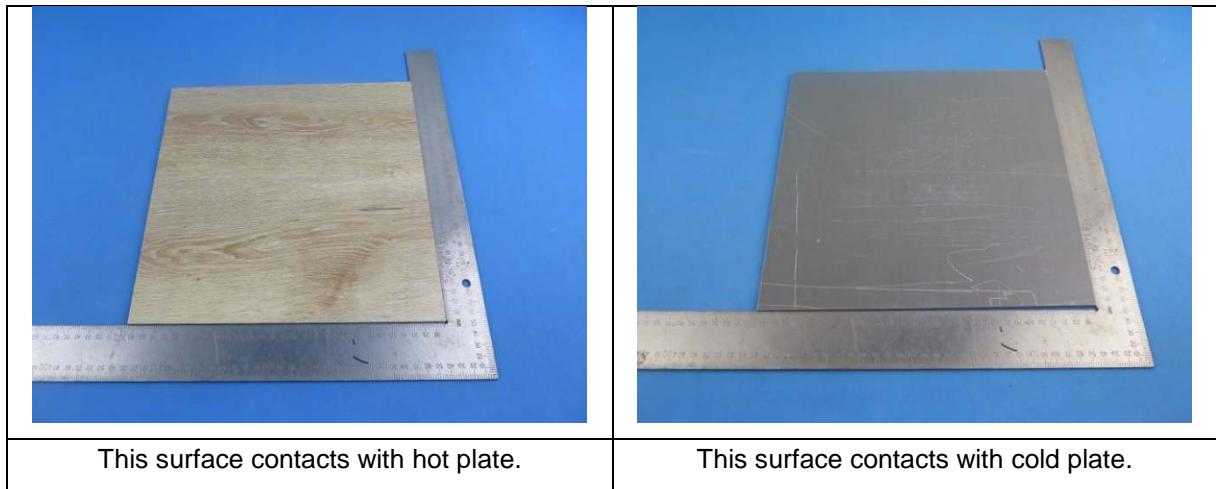
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Thermal Conductivity	0.125 W/(m·K)

Note: The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.

Specimen Photo(s):



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3. Test item: Fire Classification for Burning Behavior of Flooring Material

Sample Description: Floor

Test Method: EN 13501-1:2018 Clause 9 & EN ISO 9239-1:2010 & EN ISO 11925-2:2020

Test Result:

I . EN ISO 9239-1:2010 Reaction to fire tests for floorings-Part 1: Determination of the burning behaviour using a radiant heat source

Specimen: 1050mm × 230mm × 3.9 mm

Flame application time: 10min

Mounting and fixing: Calcium silicate board, with its density about 1016kg/m³, thickness about 21.4mm, is as the substrate. The specimens were fixed mechanically to the substrate.

Specimen No.	Furthest extent of spread of flame, mm	Critical heat flux (CHF or HF-30), kW/m ²	Integrated smoke value, %-min
1	50	> 11	190.5
2	50	> 11	196.1
3	50	> 11	153.0
Average	50	> 11	180

Note:

1. Test specimens were cut from the sample and were made of 4 pieces.
2. Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m².
3. Observations of the burning characteristics: blistering, Charring.



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II. EN ISO 11925-2:2020 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Specimen: 250mm x 90mm x 3.9 mm

Flame application time: 15s

Exposure conditions	Edge exposure			Surface exposure		
	1	2	3	1	2	3
Specimen No.						
Whether ignition occurs	No	No	No	No	No	No
Whether the flame tip reaches 150 mm above the flame application point within 20s	No	No	No	No	No	No
Whether ignition of the filter paper occurs	No	No	No	No	No	No

Note: Test specimens were cut from the sample.

Conclusion:

According to the test result and classification criteria (See table 1), the submitted sample satisfies Class B_{fl}

Reaction to fire classification: B_{fl}—s1



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Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Table 1. Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
A1 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^b$ and $PCS \leq 1,4 \text{ MJ/m}^2^c$ and $PCS \leq 2,0 \text{ MJ/kg}^d$	-
A2 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^c$ and $PCS \leq 3,0 \text{ MJ/kg}^d$	-
	EN ISO 9239-1 ^e	Critical flux $f \geq 8,0 \text{ kW/m}^2$	Smoke production ^g
B _{fl}	EN ISO 9239-1 ^e and	Critical flux $f \geq 8,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-



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Class	Test method(s)	Classification criteria	Additional classification
C _{fi}	EN ISO 9239-1 ^e and	Critical flux ^f ≥ 4,5 kW/m ²	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	
D _{fi}	EN ISO 9239-1 ^e and	Critical flux ^f ≥ 3.0 kW/m ²	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	
E _{fi}	EN ISO 11925-2 ^h : Exposure = 15 s	F _s ≤ 150 mm within 20 s	-
F _{fi}	EN ISO 11925-2 ^h : Exposure = 15 s	F _s > 150 mm within 20 s	-

^a For homogeneous products and substantial components of non-homogeneous products.
^b For any external non-substantial component of non-homogeneous products.
^c For any internal non-substantial component of non-homogeneous products.
^d For the product as a whole.
^e Test duration = 30 min.
^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
^g s1 = Smoke ≤ 750 % minutes;
s2 = not s1.
^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack



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Test Photo:



During test- Radiant heat source



Before test- Radiant heat source



After test- Radiant heat source



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<p>During test- Ignitability- Edge exposure</p>	<p>During test- Ignitability- Surface exposure</p>
<p>Before test- Ignitability-Edge exposure</p>	<p>After test- Ignitability- Edge exposure</p>



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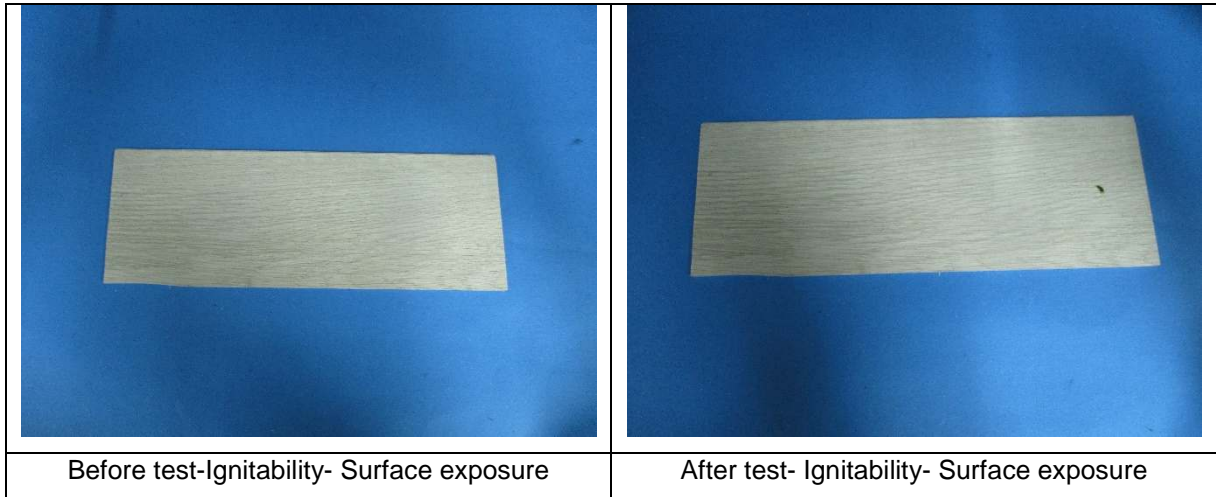
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4. Test item: PBDEs

Sample Description: Floor

Test Method: With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Result:

Test Item(s)	Limit	Unit	MDL	Result
Pentabromodiphenyl ether	1000	mg/kg	5	ND
Octabromodiphenyl ether	1000	mg/kg	5	ND
Decabromodiphenyl ether	1000	mg/kg	5	ND
Comment				PASS

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) IEC 62321 series is equivalent to EN 62321 series

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5. Test item: Pentachlorophenol (PCP)

Sample Description: Floor

Test Method: With reference to EN 14041:2018 Annex B & EN 12673:1999, analysis was performed by GC-ECD / GC-MS.

Test Result:

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Result</u>
Pentachlorophenol	5	mg/kg	0.1	ND
Comment				PASS

Remarks:

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

6. Test item: Elementary Analysis

Sample Description: Floor

Test Method: With reference to EN 1122:2001, analysis was performed by AAS / ICP-OES.

Test Result:

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Result</u>
Cadmium (Cd)	100	mg/kg	5	ND
Lead (Pb)	1000	mg/kg	20	ND
Comment				PASS

Remarks:

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



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7. Test item: Formaldehyde

Sample Description: Floor

Test Method: With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Test Result:

Test Item(s)	Unit	MDL	Result
Formaldehyde Emission (In air)	mg/m ³	0.080	ND

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) mg/m³ = milligram per cubic meter
- (6) Formaldehyde class E1: ≤0.12 mg/m³
Formaldehyde class E2: > 0.12 mg/m³

8. Test item: Phthalates

Sample Description: Floor

Test Method: With reference to EN 14041:2018 Annex F, analysis was performed by GC-MS.

Test Result:

Test Item(s)	CAS NO.	Limit	Unit	MDL	Result
Dibutyl Phthalate (DBP)	84-74-2	-	mg/kg	50	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	mg/kg	50	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	-	mg/kg	50	101
DBP+BBP+DEHP		1000	mg/kg	-	101

Comment

PASS

Remarks:

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



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9. Test item: Chlorinated Paraffins

Sample Description: Floor

Test Method: With reference to ISO 18219:2015, analysis was performed by GC-NCI-MS / GC-ECD.

Result:

Test Item(s)	Limit	Unit	MDL	Result
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1000	mg/kg	50	ND
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins) (MCCPs)	1000	mg/kg	50	ND
SCCPs + MCCPs	1000	mg/kg	-	ND

Comment

PASS

Remarks:

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

10. Test item: Polycyclic Aromatic Hydrocarbons (PAHs)

Sample Description: Floor

Test Method: With reference to EN 14041:2018 Annex E, analysis was performed by GC-MS.

Result:

Test Item(s)	CAS NO.	Limit	Unit	MDL	Result
Benzo(a)anthracene(BaA)	56-55-3	1	mg/kg	0.2	ND
Chrysene(CHR)	218-01-9	1	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1	mg/kg	0.2	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1	mg/kg	0.2	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	50-32-8	1	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	192-97-2	1	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1	mg/kg	0.2	ND

Comment

PASS

Remarks:

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



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11. Test item: Organotin Compounds

Sample Description: Floor

Test Method: With reference to ISO/TS 16179:2012, analysis was performed by GC-MS.

Result:

Test Item(s)	Limit	Unit	MDL	Result
Dibutyltin (DBT)	-	mg/kg	0.20	ND
Diocetyl tin (DOT)	-	mg/kg	0.20	ND
Tri substituted Organotin	-	mg/kg	-	0.6
Sum of Organotin compounds	1000	mg/kg	-	0.6

Comment

PASS

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) Trisubstituted organotin compounds include Tributyltin (TBT), Triphenyltin (TPhT), Tripropyltin (TPT), Tricyclohexyltin (TCyT), Trioctyltin (TOT) and Trimethyltin (TMT), MDL for each other is 0.20 mg/kg.

12. Test item: Perfluorooctanoic acid (PFOA) and its salts

Sample Description: Floor

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Result:

Test Item(s)	CAS NO.	Limit	Unit	MDL	Result
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	1000	mg/kg	10	ND

Comment

PASS

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1);



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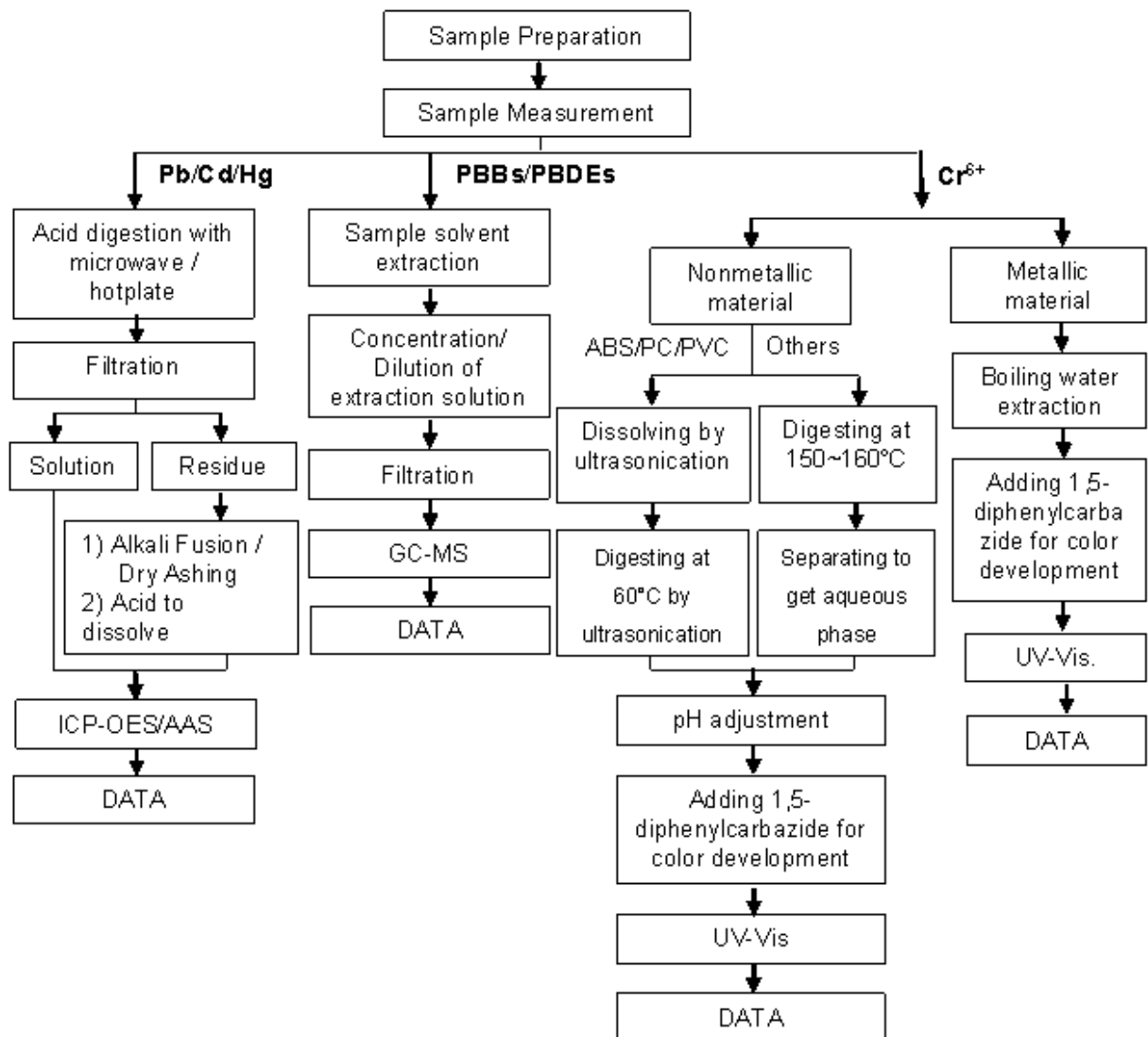
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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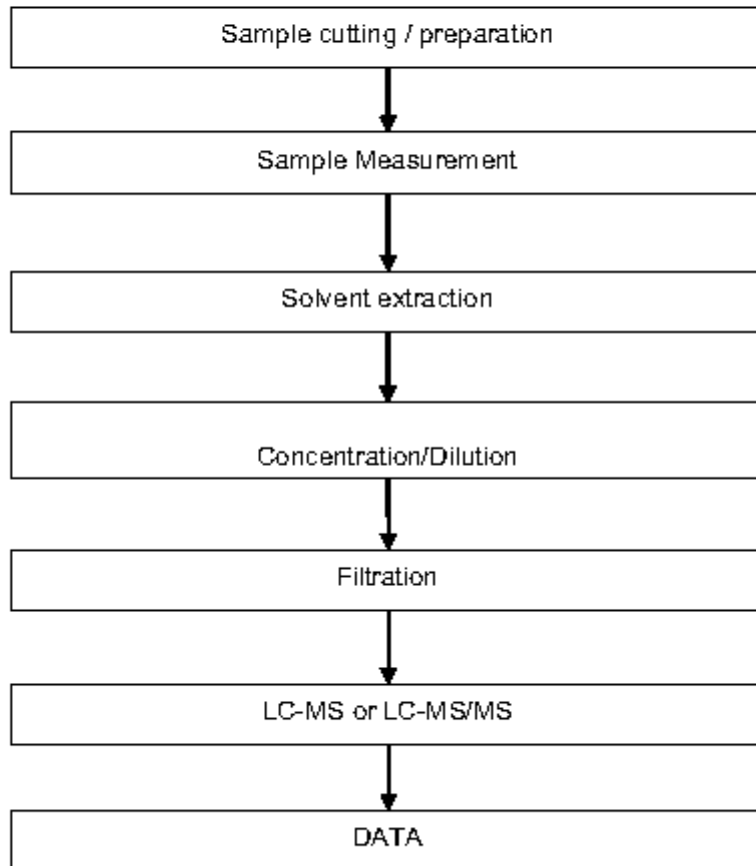
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PFOA / PFOS Testing Flow Chart



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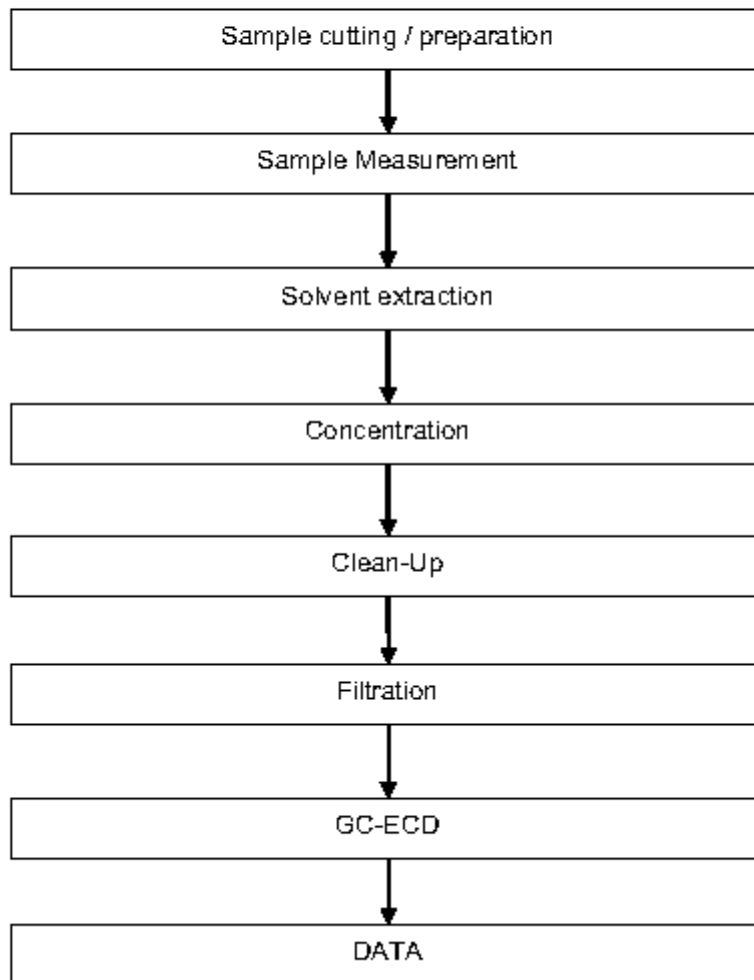
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SCCP/MCCP/LCCP Testing Flow Chart



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