

# Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 1 of 19

Client Name: DONGJUE SILICONE(NANJING) CO.,LTD / ANHUI DONGJUE SILICONE CO., LTD

Client Address: NO.196 FUYIN ST.(E), QIAOLIN, PUKOU DISTRICT, NANJING CITY, JIANGSU PROVINCE, CHINA / NO. 8 MA ROAD, FINE CHEMICAL INDUSTRY BASE, WUJIANG TOWN,HE COUNTY,MA' ANSHAN CITY,ANHUI PROVINCE,CHINA

Sample Name: Silicone Rubber

Model No.: NE-5150

Client Ref. Information: See Attachment

The above sample(s) and information were provided by the client.

SGS Job No.: SZPC2309005879

Sample Receiving Date: Sep 22, 2023

Testing Period: Sep 22, 2023 ~ Oct 07, 2023

Test Requested: Select test(s) as requested by the client.

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Phthalates	See Results
Halogen	See Results
Element(s)	See Results
Dimethyl fumarate (DMFu)	See Results
Organic-Tin compounds	See Results

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie  
Approved Signatory

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Guangzhou Branch, Chemical Laboratory

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# Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 2 of 19

Test Requirement	Conclusion
TBBPA	See Results

## Test Result(s):

### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	CAN23-0105581-0001.C001	White material

### Remarks:

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	001
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND



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# Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 3 of 19

Test Item(s)	Limit	Unit(s)	MDL	001
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

**Notes:**

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

**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.	Unit(s)	MDL	001
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

**Notes:**

**AfPS (German commission for Product Safety) : PAHs requirements**

Parameter	Category 1	Category 2	Category 3
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Guangzhou Branch Technical Laboratory

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	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum



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# Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 5 of 19

Naphthalene (NAP) mg/kg	< 1	< 2	< 10		
<b>Sum of 15 PAHs</b>	<1	< 5	< 10	< 20	< 50

**Notes:**

- <sup>a</sup> A “Child” is legally defined as a person before reaching the age of 14 years.
- <sup>b</sup> Use by children includes both active and passive contact by children.
- <sup>c</sup> Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
- <sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) “foreseeable use” shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

**Remark:**

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

**Phthalates**

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	001
Dibutyl Phthalate(DBP)	84-74-2	%	0.003	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Dimethyl Phthalate(DMP)	131-11-3	%	0.003	ND
Diethyl Phthalate(DEP)	84-66-2	%	0.003	ND
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	ND
Dipentyl Phthalates (DnPP)	131-18-0	%	0.003	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	%	0.003	ND
Diphenyl Phthalate(DPhP)	84-62-8	%	0.003	ND
Dibenzyl Phthalate(DBzP)	523-31-9	%	0.003	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	%	0.010	ND
Dipropyl Phthalate(DPrP)	131-16-8	%	0.003	ND
Dinonyl Phthalate(DNP)	84-76-4	%	0.003	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND

**Halogen**

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

Test Item(s)	Unit(s)	MDL	001
Fluorine(F)	mg/kg	20	ND



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# Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 6 of 19

Test Item(s)	Unit(s)	MDL	001
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

## Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	001
Arsenic(As)	mg/kg	10	ND
Barium(Ba)	mg/kg	10	ND
Antimony(Sb)	mg/kg	10	ND
Selenium(Se)	mg/kg	10	ND

## Dimethyl fumarate (DMFu)

Test Method: Solvent extraction, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	001
Dimethyl Fumarate (DMFu)	624-49-7	mg/kg	0.1	ND

## Organic-Tin compounds

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

Test Item(s)	Unit(s)	MDL	001
Dibutyl tin(DBT)	mg/kg	0.02	ND
Tributyl tin(TBT)	mg/kg	0.02	ND
Diocetyl tin(DOT)	mg/kg	0.02	ND
Triphenyl tin(TPhT)	mg/kg	0.02	ND

## TBBPA

Test Method: With reference to SGS in house method, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

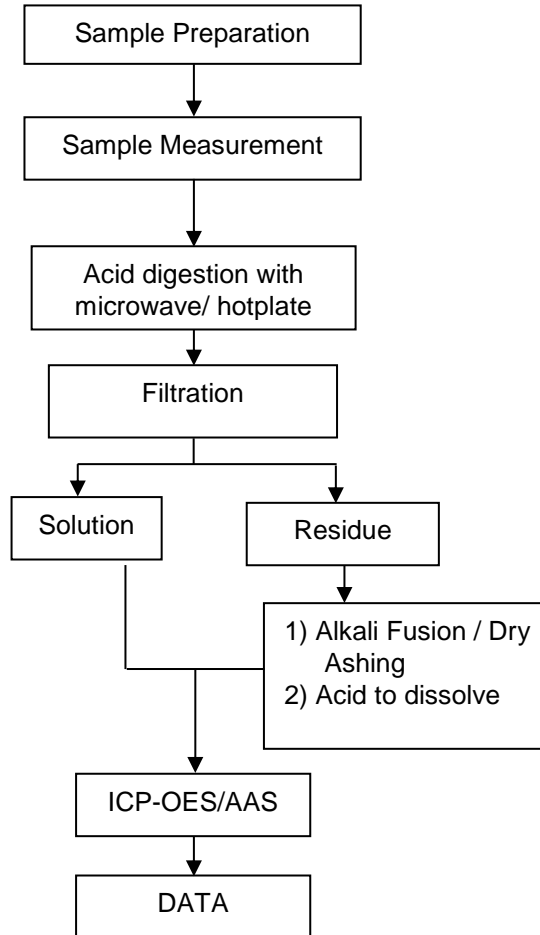
Test Item(s)	CAS No.	Unit(s)	MDL	001
Tetrabromobisphenol A(TBBP-A)	79-94-7	mg/kg	5	ND

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.

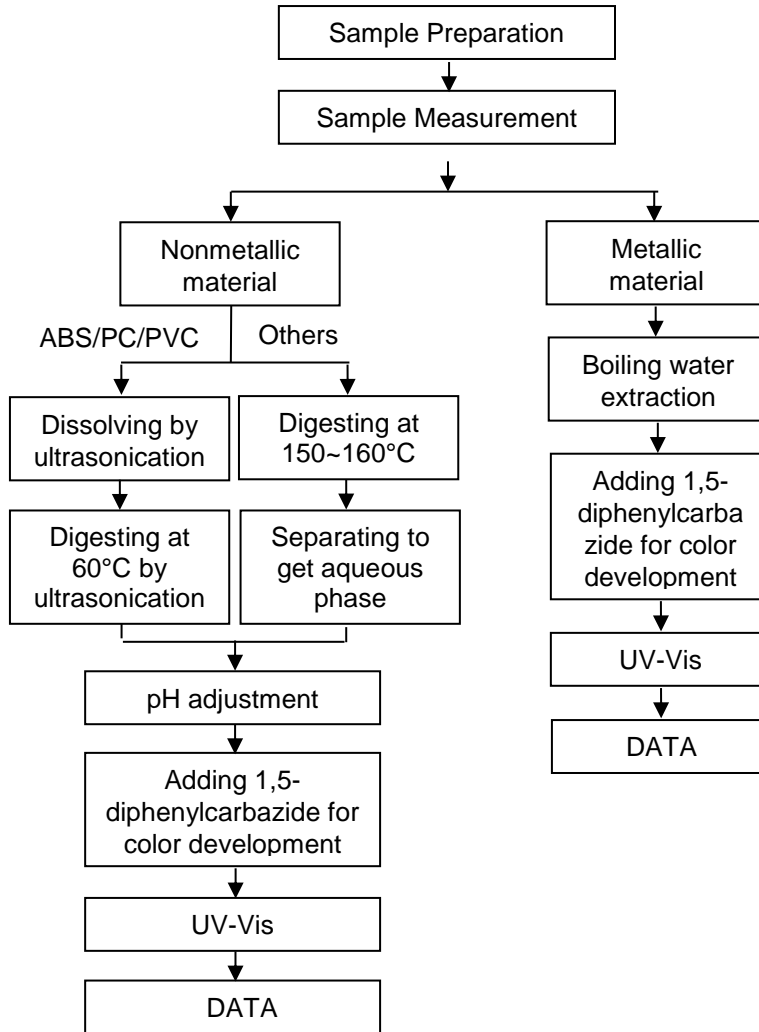


### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



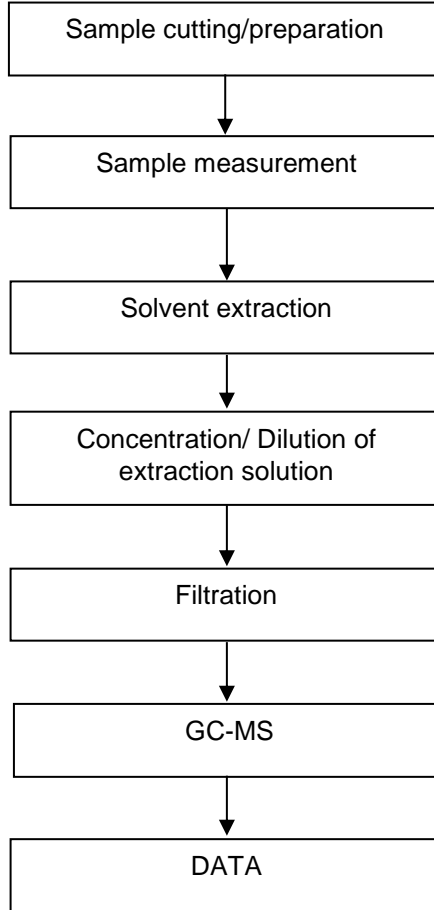
**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**



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**PBBs/PBDEs Testing Flow Chart**



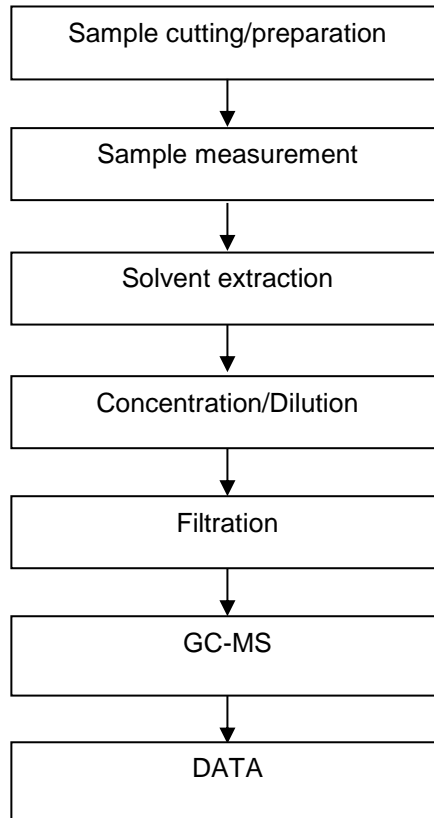
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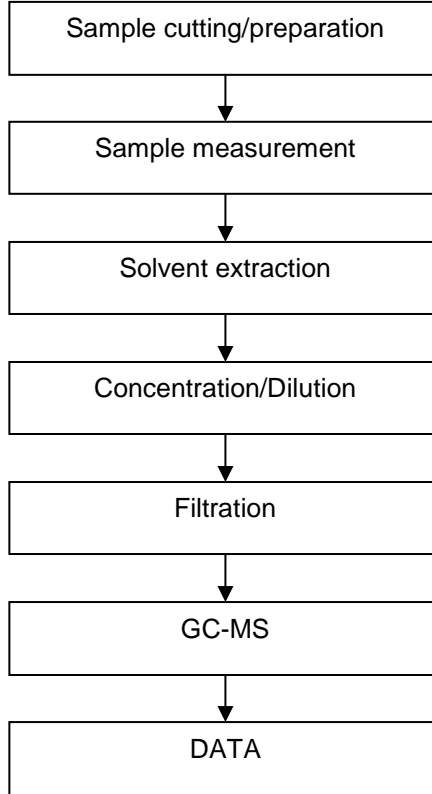
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### Phthalates Testing Flow Chart

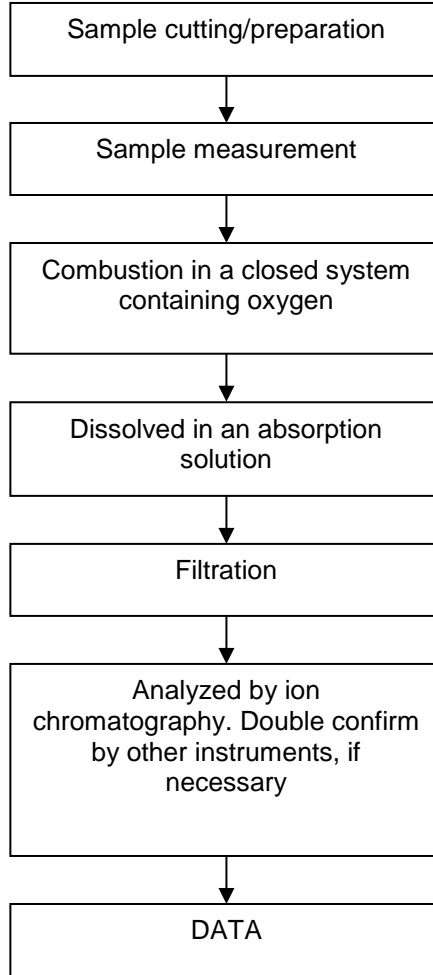


### PAHs Testing Flow Chart



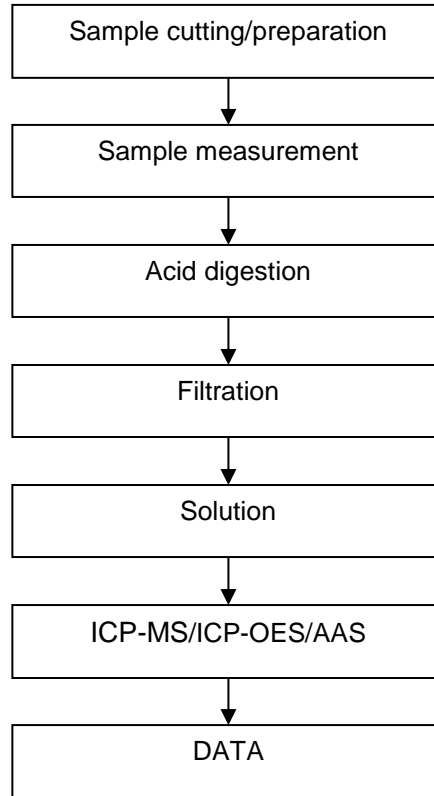
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### Halogen Testing Flow Chart

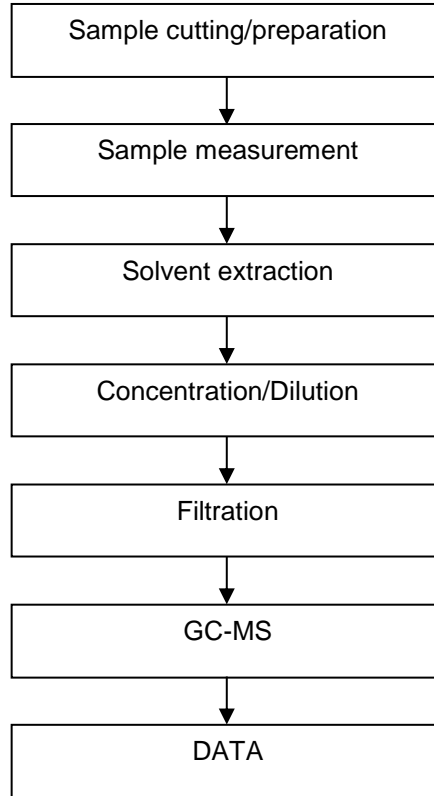


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### Elements Testing Flow Chart

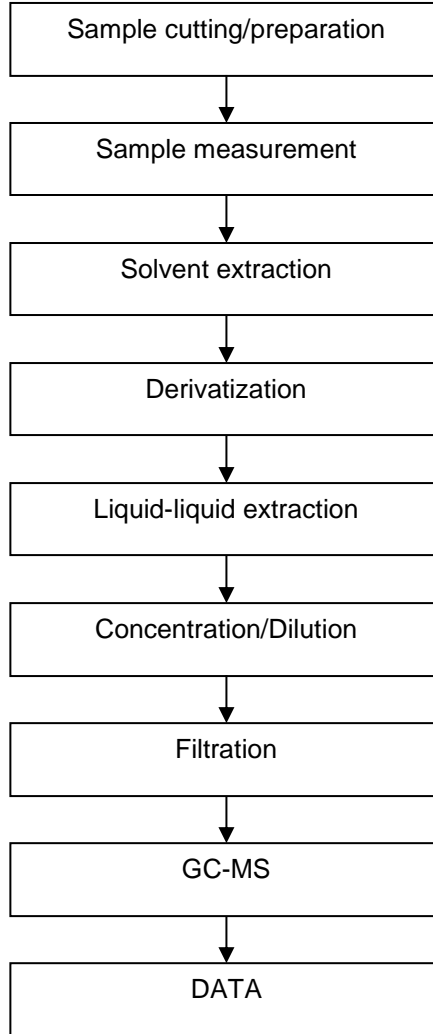


## DMF (Dimethyl fumarate) Testing Flow Chart



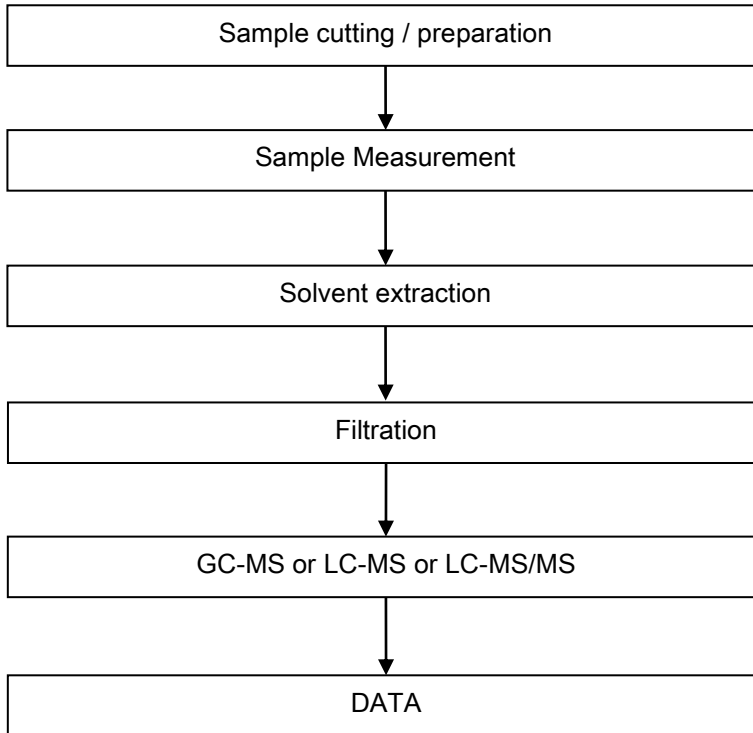
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### Organotin Testing Flow Chart



## ATTACHMENTS

### TBBP-A Testing Flow Chart



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# Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 17 of 19

Attachment:

NE-10、NE-20、NE-131、NE-141、NE-151、NE-161、NE-171、NE-181、NE-191  
 NE-130、NE-140、NE-150、NE-160、NE-170、NE-180、NE-190  
 NE-5140、NE-5140A、NE-5150A、NE-5160、NE-5160A、NE-5170、  
 NE-5170A、NE-5180、NE-5180A、NE-5240、NE-5250、NE-5260、NE-5270、  
 NE-5280、NE-5340、NE-5350、NE-5360、NE-5370、NE-5380  
 NE-251、NE-261、NE-271、NE-281、NE-240、NE-250、NE-260、NE-270、NE-280  
 NE-7120、NE-7125、NE-7130、NE-7130NH、NE-7140、NE-7140NH、NE-7140A  
 NE-7150、NE-7150NH、NE-7150A、NE-7155、NE-7155U、NE-7160、NE-7160NH  
 NE-7160A、NE-7170、NE-7170NH、NE-7170A、NE-7180、NE-7180NH、  
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 NE-8161、NE-8171、NE-341、NE-345、NE-351、NE-3140、NE-3150、NE-3160  
 NE-3250、NE-3260、NE-3270、NE-631、NE-641、NE-651、NE-661、NE-671  
 NE-681、NE-GT131、NE-GT141、NE-GT151、NE-GT161、NE-GT171、NE-GT181  
 NE-GT7150、NE-GT7160、NE-GT7170  
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 NE-9180NH、NE-9190、NE-9240、NE-9240NH、NE-9250、NE-9250NH  
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 NE-9940、NE-9950、NE-9960、NE-9970、NE-9980  
 NE-1130、NE-1140、NE-1150、NE-1160、NE-1170



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## Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 18 of 19

NE-1230、NE-1240、NE-1250、NE-1260、NE-1270

NE-1330、NE-1340、NE-1350、NE-1360、NE-1370

NE-0130、NE-0140、NE-0150、NE-0160、NE-0170、NE-0180

NE-0930、NE-0940、NE-0950、NE-0960、NE-0970、NE-0980

NE-1440、NE-1450、NE-1460、NE-1470、NE-J140、NE-J150、NE-J160、NE-J170

NE-D140、NE-D150、NE-D160、NE-D170

NE-GT9130、NE-GT9140、NE-GT9150、NE-GT9160、NE-GT9170、NE-GT9180



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## Test Report

No.: CANPC23010558101

Date: Oct 09, 2023

Page 19 of 19

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