

Test Report

No.: CANEC24027434809

Date: Dec 16, 2024

Page 1 of 9

Client Name: GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD ZHENGHUA CERAMIC DISC CAPACITOR BRANCH COMPANY

Client Address: MULTIPLE FUNCTIONAL BUILDING, BLOCK 110, INDUSTRIAL ZONE, ROAD 1ST DUANZHOU, ZHAOQING CITY, GUANGDONG, P.R. CHINA

Sample Name: CERAMIC DISC CAPACITOR

Client Ref. Information: The products include six major series: CC1, CT1, CC81, CT81, CS1, and CT7 (including CT7 discs, CT7-CHG vehicle specifications, and CT7-CHL series). The following are some representative specifications: CT7-Y5V-222M-250VAC, CT7-Y5V-472M-250VAC, CT7-Y5P-101K-400VAC, CT7-Y5V-103M-300VAC, CT7-Y5V-103M-500VAC, CT81-Y5V-102M-10KV, CT81-Y5V-102M-15KV, CT81-Y5U-471M-10KV, CC1-NPO-33J-50V, CT1-Y5V-103M-50V, CS1-Y5V-104Z-50V, CT1-Y5P-102K-500V, CT81-Y5V-472M-1KV, CC81-SL-68K-4KV, CT81-Y5V-102M-2KV, CT7-Y5U-472M-400VAC, CT7-Y5V-103M-300VAC-CHG, CT7-Y5P-471M-300VAC-CHG, CT7-Y5U-472M-300VAC-CHG, CT7-Y5U-102M-300VAC-CHG, CT7-Y5P-111K-500VAC-CHL, CT7-Y5P-131K-500VAC-CHL, CT7-Y5P-151K-500VAC-CHL, CT7-Y5U-331K-500VAC-CHL, CC81-U2J-5K-15KV, CC81-S3L-101K-20KV, CT81-Y5P-102K-15KV, CT81-U2J-10K-20KV, CC81-T3M-102K-15KV, CC81-T3M-101K-15KV, CT81-Y5U-102M-20KV, CT81-Y5R-102K-2KV, CT81-Y5R-102K-1KV, CT7-Y5R-471M-250VAC, CT7-Y5R-471M-400VAC, CT7-Y5U-102M-400VAC (blue powder), CT7-Y5U-472M-400VAC (blue powder), CT7-Y5U-472M-300VAC (blue powder), CT7-Y5V-103M-250VAC (blue powder), CT81-Y5V-103M-2KV (blue powder)

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

SGS Job No.: GZP24-039204
 Sample Receiving Date: Dec 06, 2024
 Testing Period: Dec 06, 2024 ~ Dec 16, 2024
 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
Phthalates	See Results

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

Violet Shi
Approved Signatory

scan to see the report



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Test Requirement	Conclusion
Halogen	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0274348-0001.C001	Yellow body with black printing

Remarks:

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

Phthalates

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	84-74-2	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	mg/kg	50	ND
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	605-50-5	mg/kg	50	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear(DPP)	84777-06-0	mg/kg	50	ND
1,2-benzenedicarboxylic Acid,dihexyl ester branched and linear(DHxP)	68515-50-4	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-10-Alkyl Esters1,2-Benzenedicarboxylic Acid,Mixed Decyl and Hexyl and Octyl	68515-51-5 /68648-93-1	mg/kg	100	ND



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Test Report

No.: CANEC24027434809

Date: Dec 16, 2024

Page 3 of 9

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Diesters with ≥ 0.3% of Dihexyl Phthalate				
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride (MHHPA)	-	mg/kg	50	ND

Notes:

(1) DBP, BBP, DEHP, DIBP, DINP, DNOP, DIDP is/are accredited by CNAS.

Halogen

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

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	151
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

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	A1
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
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	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 Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 18 PAHs	-	mg/kg	-	ND



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Notes:
Client requirements

Parameter	Category 1	Category 2		Category 3	
	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 ^{a,b} 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 ^c with skin during the intended or foreseeable use ^d .			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
Sum of 7 PAHs (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum



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Test Report

No.: CANEC24027434809

Date: Dec 16, 2024

Page 5 of 9

Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

Note:

- ^a A "Child" is legally defined as a person before reaching the age of 14 years.
- ^b Use by children includes both active and passive contact by children.
- ^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)
- ^d 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 classification of material categories is refer to AfPS GS 2019:01 PAK issued on 10 April, 2020. The Acenaphthylene (ANY), Acenaphthene (ANA) and Fluorene (FLU) are not in the scope of AfPS 2019:1 PAK which is additionally in scope of AfPS GS 2014:01 PAK and recommended in connection with §30 LFGB product safety requirements.

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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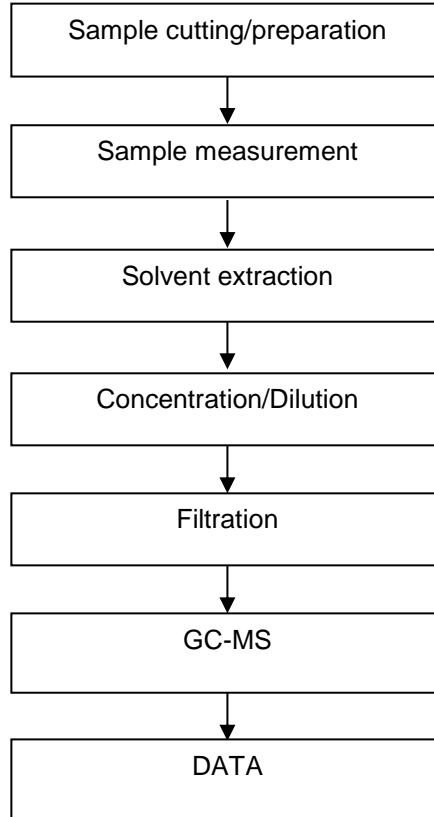
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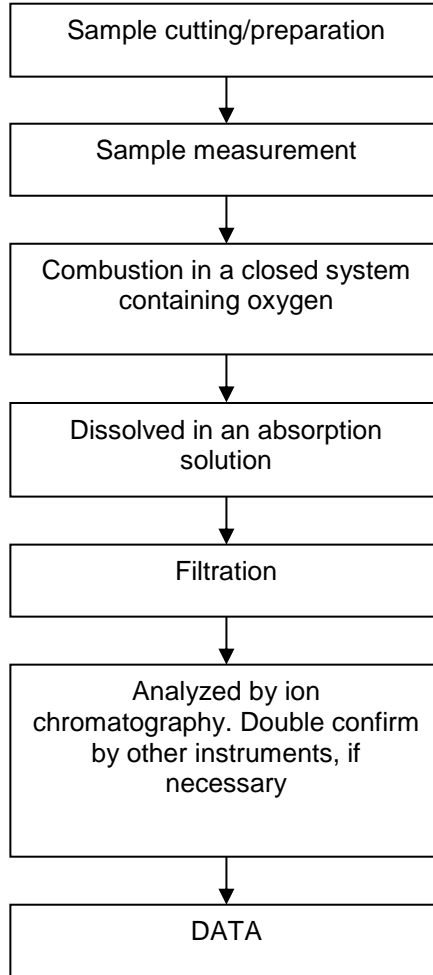
Phthalates Testing Flow Chart



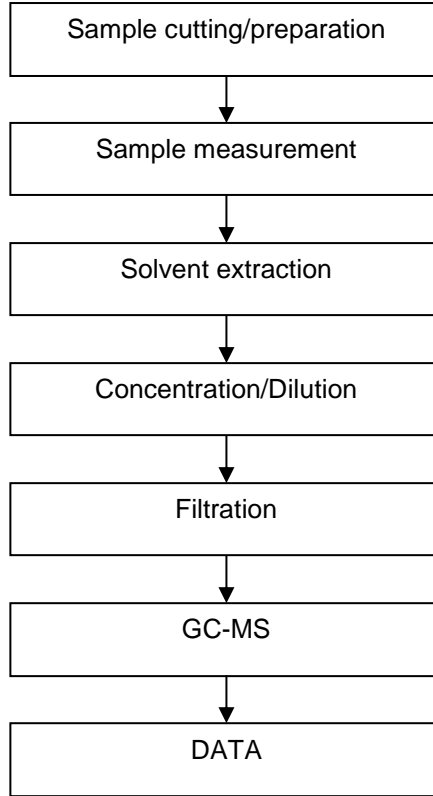
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Halogen Testing Flow Chart



PAHs Testing Flow Chart



Test Report

No.: CANEC24027434809

Date: Dec 16, 2024

Page 9 of 9

Sample Photo:



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