Client Name : WINDAY ELECTRONIC(DONG GUAN ）CO.,LTD

Client Address : LONG QUAN INDUSTRY XIN-JIU-WEI TERRITORY LIAO BU VILLAGE DONGGUAN CITY GUANGDONG CHINA

Sample Name : METALLIZEDFILM CAPACITOR

Model No. : MPP

Client Ref. Info. : MEF,MEM,MPM,PEN,MPH,MEH,PPN,PPS,MTF,MTP,PSM,MMS,MPJ ，MPA,MPT,MEA,MET,, EMPP,EMPE,TMPE,FMPE,DMPE,DMPP,PEM, PEI,PPI,TMPE,TMPP,EPEM,MPEM

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

SGS Job No. : CP23-011504 - SZ

Date of Sample Received : 16 Mar 2023

Testing Period : 16 Mar 2023 - 24 Mar 2023

Test Requested : Selected 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).

Result Summary :

Test Requested	Conclusion
Halogen	See Results
Entry 76 of Regulation (EU) 2021/2030 amending Annex XVII of REACH Regulation (EC) No 1907/2006- N,N-dimethylformamide (DMFA)	PASS
Red Phosphor	See Results
Entry 76 of Regulation (EU) 2021/2030 amending Annex XVII of REACH Regulation (EC) No 1907/2006- N,N-dimethylformamide	PASS
AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results

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

scan to see the report

06C0A3D7

Allie Chen

Allie Chen
Approved Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Technical Laboratory
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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-037851.001	Red material 1#
SN2	CAN23-037851.002	Colorless transparent film with silvery surface 2#
SN3	CAN23-037851.005	"METALLIZEDFILM CAPACITOR"(mixed)

Remarks :

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

Halogen

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

Test Item(s)	Unit	MDL	001	002
Fluorine (F)	mg/kg	50	ND	155
Chlorine (Cl)	mg/kg	50	302	ND
Bromine (Br)	mg/kg	50	ND	ND
Iodine (I)	mg/kg	50	ND	ND

Entry 76 of Regulation (EU) 2021/2030 amending Annex XVII of REACH Regulation (EC) No 1907/2006- N,N-dimethylformamide (DMFA)

Test Method : With reference to ISO 16189:2021, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	002
N,N-dimethylformamide	68-12-2	0.3	%	0.0005	ND	ND
Conclusion					**PASS**	**PASS**

Notes :

Recommended requirement with reference to Entry 76 of Regulation (EU) 2021/2030 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (Effective date: 12 December 2023).

Red Phosphor

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Test Method : SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

Test Item(s)	Unit	MDL	001	002
Red phosphorus	mg/kg	500	ND	ND

Entry 76 of Regulation (EU) 2021/2030 amending Annex XVII of REACH Regulation (EC) No 1907/2006-N,N-dimethylformamide

Test Method : With reference to EN 17131:2019. Analysis was conducted by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
N,N-Dimethyl formamide (DMFa)	68-12-2	0.3	%	0.0005	ND
Conclusion					**PASS**

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
N,N-Dimethyl formamide (DMFa)	68-12-2	0.3	%	0.0005	ND
Conclusion					**PASS**

Notes :

Recommended requirement with reference to Entry 76 of Regulation (EU) 2021/2030 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (Effective date: 12 December 2023).

AfPS GS 2019:01 PAK - 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	MDL	001
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	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
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	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
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND

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Test Item(s)	CAS NO.	Unit	MDL	001
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	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
Sum of 4 PAHs (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND

Test Item(s)	CAS NO.	Unit	MDL	002
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	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
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	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
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	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
Sum of 4 PAHs (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND

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AfPS (German commission for Product Safety) : PAHs requirements

Parameter (mg/kg)	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)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
Sum of 15 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 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.

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

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

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Test Item(s)	CAS NO.	Unit	MDL	005
Perfluorobutane Acid (PFBA)	375-22-4	mg/kg	0.01	ND
Perfluoropentane Acid (PFPeA)	2706-90-3	mg/kg	0.01	ND
Perfluorohexane Acid (PFHxA) and its salts*	-	mg/kg	0.01	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	mg/kg	0.01	ND
Perfluorobutane Sulfonate (PFBS) and its salts*	-	mg/kg	0.01	ND
Perfluoroheptane Acid (PFHpA)	375-85-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA) and its salts*	-	mg/kg	0.01	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) and its salts / derivative *	-	mg/kg	0.01	ND
Perfluorohexane Sulfonate (PFHxS) and its salts*	-	mg/kg	0.01	ND
Perfluorononane Acid (PFNA) and its salts*	-	mg/kg	0.01	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	ND
Perfluoroheptanesulfonic Acid (PFHpS) and its salts*	-	mg/kg	0.01	ND
Perfluorodecane Acid (PFDA) and its salts*	-	mg/kg	0.01	ND
2H,2H,3H,3H Perfluoroundecanoic acid (H4PFUnDA/ 8:3 FTCA)	34598-33-9	mg/kg	0.01	ND
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.01	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide(N-MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(N-MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(N-EtFOSE)	1691-99-2	mg/kg	0.01	ND
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	mg/kg	0.01	ND
Perfluorododecanoic Acid (PFDoDA) and its salts*	-	mg/kg	0.01	ND
Perfluorodecane Sulfonate (PFDS) and its salts*	-	mg/kg	0.01	ND
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	0.01	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.01	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) and its salts*	-	mg/kg	0.01	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.01	ND

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Test Item(s)	CAS NO.	Unit	MDL	005
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.01	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.01	ND
Perfluoro-nonane-sulfonic acid (PFNS)	68259-12-1	mg/kg	0.01	ND
Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	mg/kg	0.01	ND
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	mg/kg	0.01	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	mg/kg	0.01	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.01	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	mg/kg	0.01	ND
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	mg/kg	0.01	ND
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	mg/kg	0.01	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.01	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	mg/kg	0.01	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC_2H_5)$_3$)	101947-16-4	mg/kg	0.1	ND

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Notes:

PFOA and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.

PFOS and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH_4 (CAS No. 29081-56-9), PFOS-N$(C_{10}H_{21})_2(CH_3)_2$ (CAS No. 251099-16-8), PFOS-$NH_2(C_2H_4OH)_2$ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N$(C_2H_5)_4$ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

PFNA and its salts* including PFNA (CAS No. 375-95-1), PFNA-Na (CAS No. 21049-39-8) and PFNA-NH_4 (CAS No. 4149-60-4). The result of PFNA is used to represent PFNA and its salts.

PFDA and its salts* including PFDA (CAS No. 335-76-2), PFDA-Na (CAS No. 3830-45-3) and PFDA-NH_4 (CAS No. 3108-42-7). The result of PFDA is used to represent PFDA and its salts.

Perfluorododecanoic Acid (PFDoDA) and its salts* including PFDoDA (CAS No. 307-55-1) and PFDoDA-NH_4 (CAS No. 3793-74-6). The result of PFDoDA is used to represent PFDoDA and its salts.

PFDS and its salts* including PFDS (CAS No. 335-77-3), PFDS-Na (CAS No. 2806-15-7), PFDS-K (CAS No. 2806-16-8) and PFDS-NH_4 (CAS No. 67906-42-7), The result of PFDS is used to represent PFDS and its salts.

PFBS and its salts* including PFBS (CAS No. 375-73-5), PFBS-K (CAS No. 29420-49-3) and PFBS-H_2O (CAS No. 59933-66-3). The result of PFBS is used to represent PFBS and its salts.

Perfluorohexane acid (PFHxA) and its salts* including PFHxA (CAS No. 307-24-4) and APFHx (CAS No. 21615-47-4). The result of PFHxA is used to represent PFHxA and its salts.

PFHxS and its salts* including PFHxS (CAS No. 355-46-4), PFHxS-Na (CAS No. 82382-12-5) and PFHxS-K (CAS No. 3871-99-6). The result of PFHxS is used to represent PFHxS and its salts.

PFHpS and its salts* including PFHpS (CAS No. 375-92-8), PFHpS-Na (CAS No. 21934-50-9) and PFHpS-K (CAS No. 60270-55-5). The result of PFHpS is used to represent PFHpS and its salts.

HFPO-DA and its salts * including HFPO-DA (CAS No. 13252-13-6), HFPO-DA-K (CAS No. 67118-55-2), HFPO-DA-NH_4 (CAS. No. 62037-80-3) and HFPO-DA-F (CAS No. 2062-98-8). The result of HFPO-DA is used to represent HFPO-DA and its salts.

(H2PFDA/8:2 FTCA) and its salts / derivative * including H2PFDA/8:2 FTCA (CAS No. 27854-31-5) and (8:2 FTCA-P$(C_4H_9)_4$) (CAS No. 882489-14-7). The result of H2PFDA/8:2 FTCA is used to represent H2PFDA/8:2 FTCA and its salts / derivative.

Remark: The sample(s) 005 was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

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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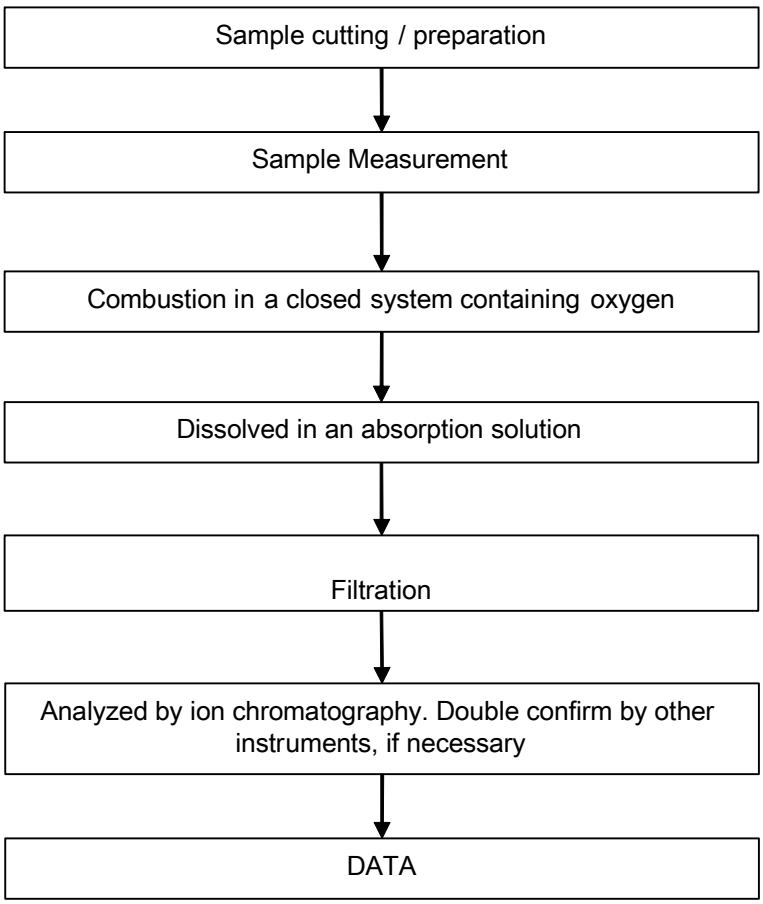
ATTACHMENTS

Halogen Testing Flow Chart



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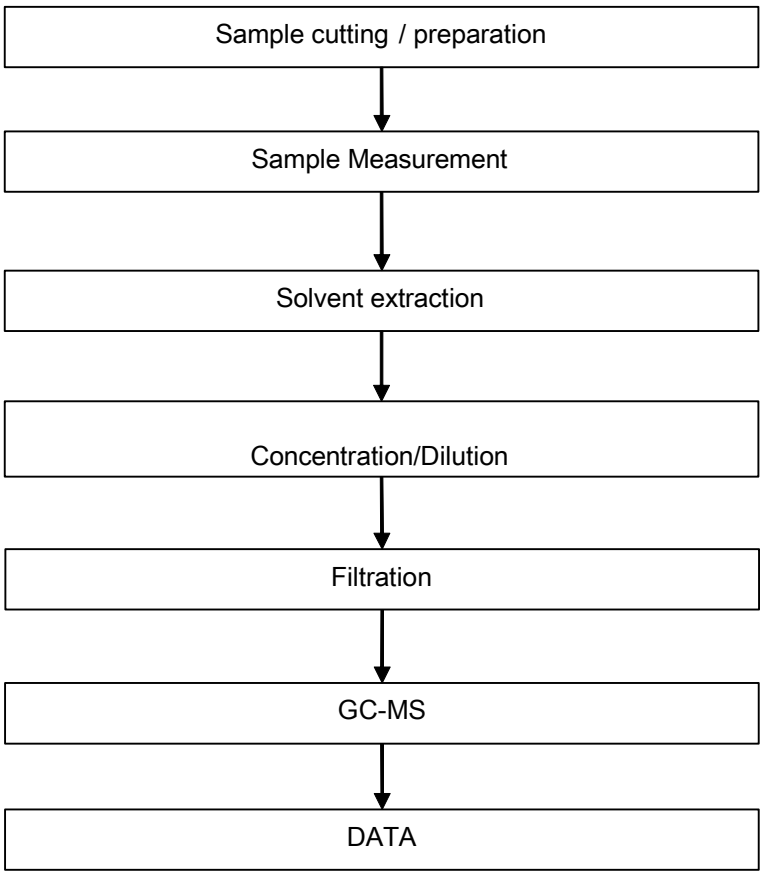
ATTACHMENTS

PAHs Testing Flow Chart



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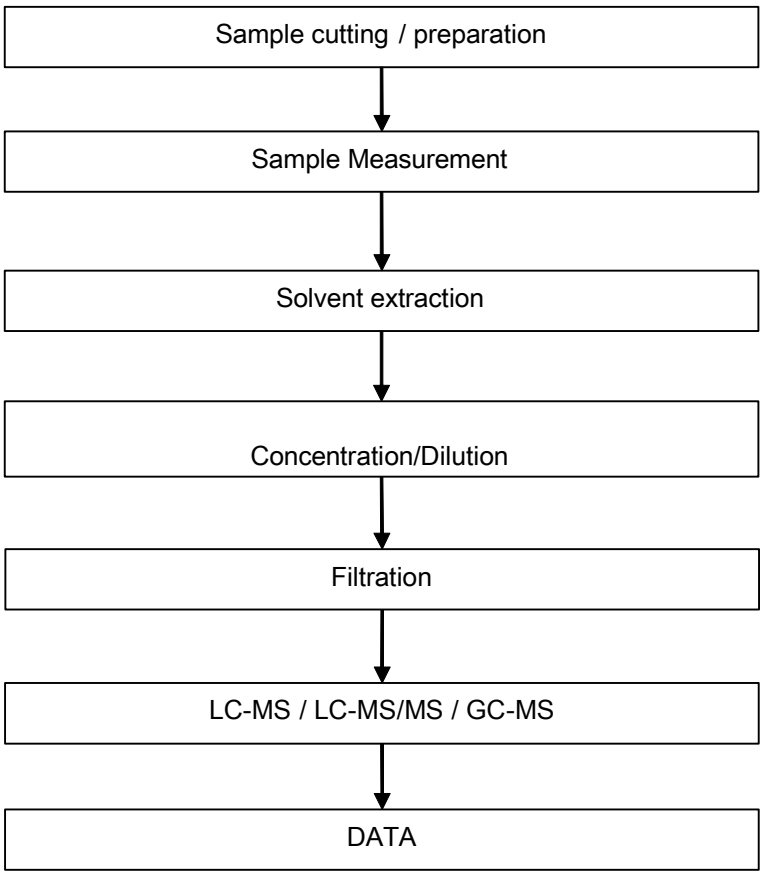
PFAS Testing Flow Chart



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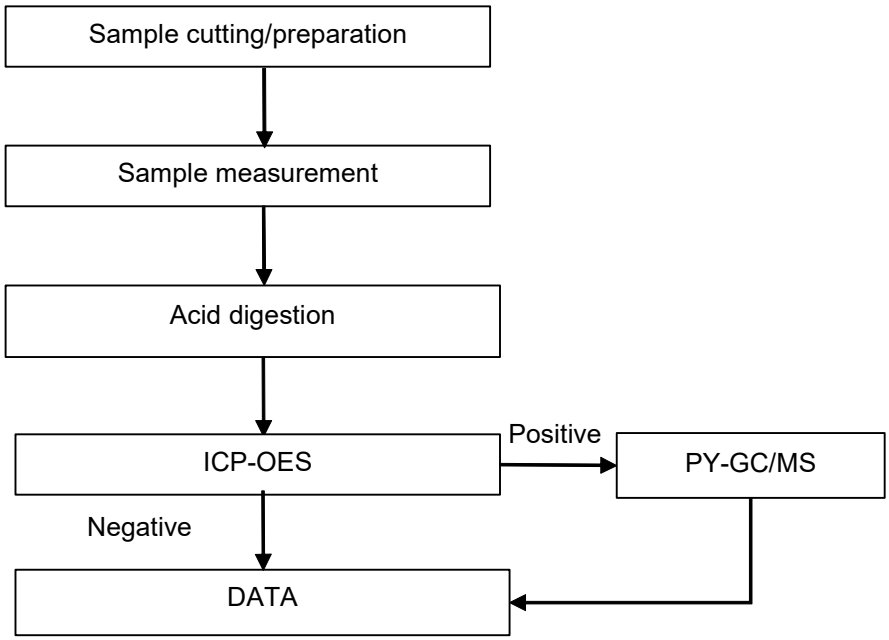
Red phosphorus Testing Flow Chart



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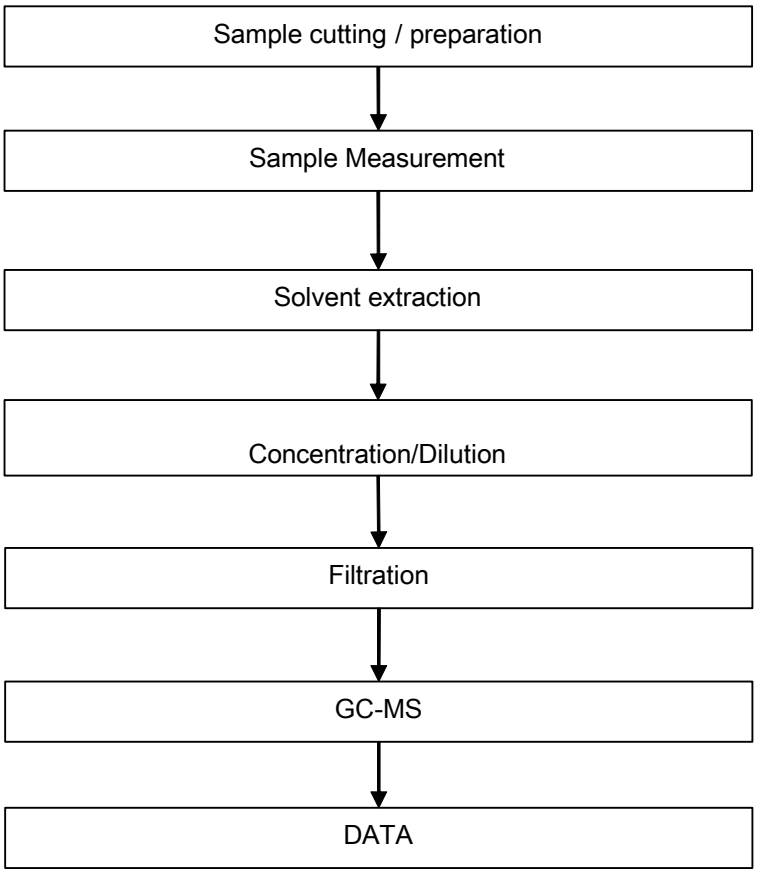
Dimethyl Formamide Testing Flow Chart



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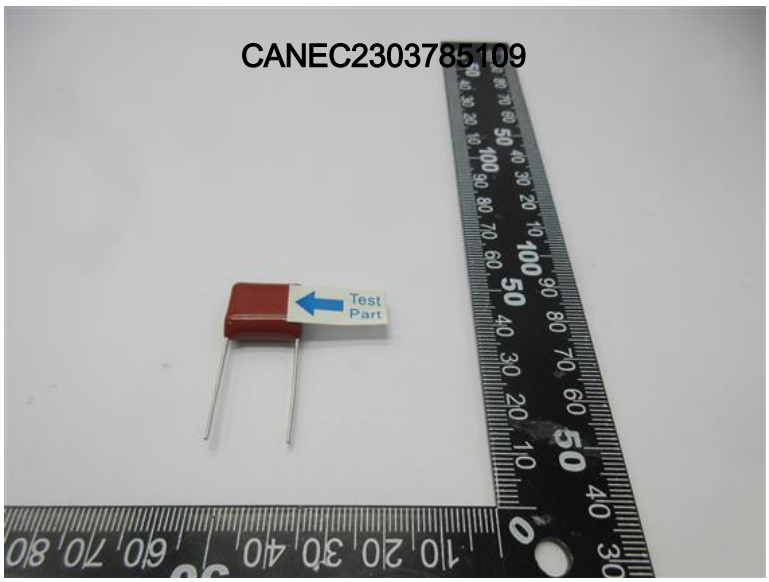
Sample photo:



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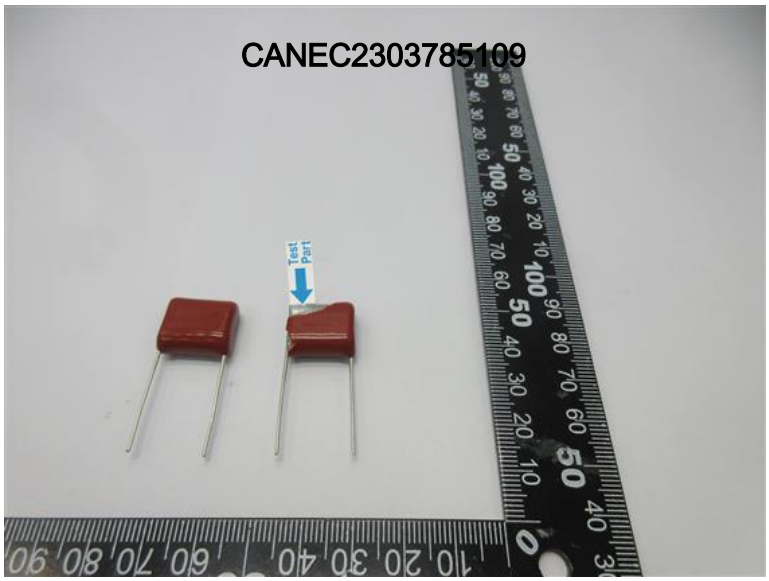

CAN23-037851.002

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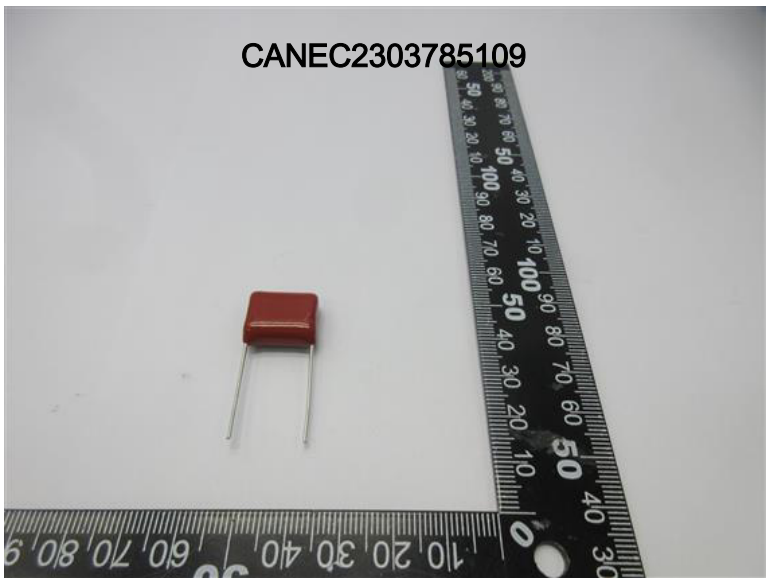

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SGS authenticate the photo on original report only

*** End of Report ***

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