

DATE:OCT 11 2020 REVISION:1.0 INTERNAL NO: 4416

CUSTOMER: Active Components

PART NO.: B301398

PARTNAME: POWER SUPPLY CORD (RCM)

DESCRIPTION: PHP-304 GTSA-3 300/500V

1.0/3Cmm<sup>2</sup> BLACK 5m

NOTE: LEAD FREE

ISSUED BY	REVIEWED BY	APPROVAL SIGNATURE
王遠	劉興偉	



PHINO ELECTRICAL WIRE & CABLE CO., LTD

# PHINO ELECTRICAL WIRE & CABLE CO., LTD.

# The Records of Revision

Customer P/N: B301398

No.	Description of Change	Issued by	Date

# PHINO ELECTRICAL WIRE & CABLE CO., LTD.

## 1. PVC flexible cord

This cord should be in accordance with AS/NZS 3191 standard.

# 2.1 Cord specification:

Item		Unit	Specification
	Product		GTSA-3
	Nominal Area	mm <sup>2</sup>	1.0
	Number		3
Conductor	Material		Annealed Soft Bare Copper Wire
	Construction	No/mm	32/0.20
	Diameter	mm	1.5 approx.
	Material		PVC
	Min. Thickness	mm	0.44
Insulation	Avg. Thickness	mm	0.60
	Diameter	mm	2.50 <u>+</u> 0.10
	Color	mm	Brown, Blue, Yellow/Green
	Material		PVC
	Min. Thickness	mm	0.62
Jacket	Avg. Thickness	mm	0.80
	Diameter	mm	7.00 <u>+</u> 0.20

# 2.2 Electrical Property:

Item	Unit	Specification	Standard
Conductor Resistance	Ω/km.	At 20°C	19.5 max
Dielectric Withstand	VAC/15min	2000	No Breakdown
Insulation Resistance	M Ω ·km	At 70°C	0.01 min

# PHINO ELECTRICAL WIRE & CABLE CO., LTD

#### 3.2 Plug

Type No.: PHP-304 Rating:10A 250V~

#### 3.4 Power supply cord

#### a. Appearance:

There shall be no damage on the surface of plug, connector and cord.

#### b. Continuity of conductor:

Open/Short circuit is not allowed.

#### c. Dielectric voltage withstand:

No breakdown of specimen with application of 2000VAC for 1minute. If the sample didn't fail in the test, a "dot" mark will be dented on the connector of it.

#### d. Insulation resistance:

Application of 500VDC between of the conductor and the grounding wire, its insulation resistance shall be not less than 5M  $\Omega$ .

#### e. Insertion and withdraw force test:

Fix the connector to an apparatus with a test plug inserted into and withdraw from it for 10 time. The force necessary to withdraw test plug from the connector should be within the range from 10N~50N.

#### f. Flexing test:

The insulation layer of the flexible cord shall not be damaged after 10000 cycles, while being tested, the cord is hanged vertically with 10N. A cycle: a rotation of the sample from vertical position until 45° to one side, and back past the vertical position until 45° to the other side, and back to the vertical position, the rate of testing shall be 60 cycles per minute. Sample with circular section cables or cords are turned through 90° in the oscillating member after 5000 cycles. After 10000 cycles, the sample shall show no damage.

# PHINO ELECTRICAL WIRE & CABLE CO., LTD

#### g. Resistance heat:

The sample is kept for in a heating cabinet at temperature of 100±2°C for 1 hour. The sample shall show no crack visible with normal, nor shall the material have become stick or greasy.

#### h. Cord bend:

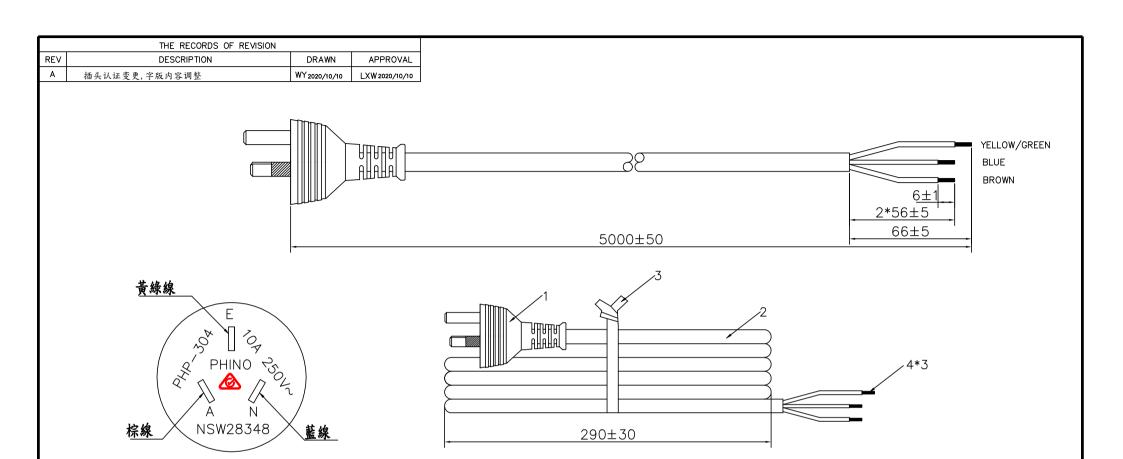
No crack on the surface of cord sample which is wind round 6 turns on mandrel of  $4\sim5$  OD subjected to a temperature of  $-15+2^{\circ}$ C for 4 hours.

#### i. Flame resistance:

The sample is self-extinguishing after all burning has ceased.

## j. Aging test:

	Item		Unit	Spec Value
	Original	Tensile Strength	Kgf/mm <sup>2</sup>	Min. 1.02
	Original	Elongation	%	Min. 150
Inculation		Tonoile Strongth	%	Variation from
Insulation	After Aging 80±2°C For 168 hours	Tensile Strength	70	Original Value <u>+</u> 20
		Floraction	%	Variation from
		Elongation	70	Original Value <u>+</u> 20
	Original	Tensile Strength	Kgf/mm <sup>2</sup>	Min. 1.02
	Original	Elongation	%	Min. 150
Sheath		Tonoile Strongth	%	Variation from
Sneath	After Aging 80±2°C	Tensile Strength	70	Original Value <u>+</u> 20
	For 168 hours	Florestion	0/	Variation from
		Elongation	%	Original Value+20

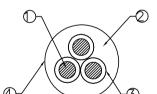


① CONDUCTOR

② SHEATH

3 INSULATION

**(4)** CORD MARKING:



TOLERANCE:

>20: ±2.0

<20: ±1.0

∠O. ±1.0

<10: ±0.5

<1.0: ±0.3

 1. PVC MOLDED PLUG: PHP-304 (BLACK)

2. PVC FLEXIBLE CORD: GTSA-3 3X1.0 RCM (BLACK)

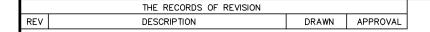
3. MINI TIE (BLACK)

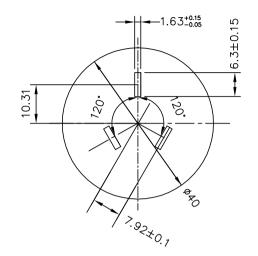
4. TERMINAL: JH&STS 629-BS-0 (3 PCS)

#### NOTES:

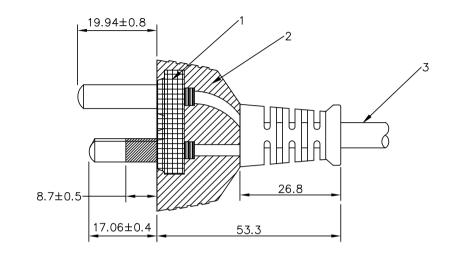
1. ALL COMPONENTS MUST BE LEAD FREE (PER RoHS REQUEST)

CUSTOMER	ACTIVE	TITIE	POWER	SUPPL	Y CORD
PART NO	B301398		F	PHP-304	-
REVISION	А	DRAWING NO:			
DESIGNED	WY 2019/06/10	UNIT	ММ	SCALE	
CHECKED	LXW 2019/06/10	MATERIAL			
APPROVED		PROJECTION	$\Phi \Box$		









TOLERANCE:

>20: ±2.0

≼20: ±1.0

<10: ±0.5

<1.0: ±0.3

		TITLE	PHP-304(	(SEMI-IN	ISULATED)
REVISION		DRAWING NO.	PHP-304(	(SEMI-IN	ISULATED)
DESIGNED	HJ 2020/09/08	UNIT	ММ	SCALE	1:1
CHECKED	LXW 2020/09/08	MATERIAL			
APPROVED		PROJECTION	<b>⊕</b> €∃		

1. INNER HOUSING

2. PVC

3. FLEXIBLE CORD

# 儀軍電線電纜有限公司 PHINO ELECTRICAL WIRE & CABLE CO., LTD

# **BILL OF MATERIALS**

P/N:B301398 DATE: 2020/10/11

REF. NO.: N/A PAGE: 1/1

NO.	PART NAME	DESCRIPTION	VENDOR	Q'TY/UNIT	MATERIALS P/N	REMARK
1	FLEXIBLE CORD	GTSA-3 3G1.0 BLACK	OPEN	5000MM	N/A	
2	BLADE(P304)	GEM 97658BS-1/KC 351204/WD 81016-1	GEM/KC/WD	2 PCS	MTP00008	
3	INSERT(P304)	GEM 98650BS-1/WD 81016	GEM/WD	1 PCS	MTP00010	
4	INSERT(P304)	IP-305A或-316A 黑色 ABS 94V-0	PHINO	1 PCS	HP000098	
5	PVC	80 SHORE A, BLACK	YX/PH	51.9G	PVCK0091	
6	TERMINAL	629-BS-0	STS/JH	3PCS	MTT00195	
7	MINI TIE	140MM BLACK (PVC)	JIANGHAN	1PCS	MFPM0010	
8	CARTON	420X330X225	LC	1 PCS	MFPA0055	

P.S.: N/A=NOT APPLICABLE

DRAWN BY:WY AUDITED BY: LXW



File Ref: NSW28348 Contact: Admin Clerk Telephone: 02 9895 0722

Mr Hu Jianbing
Phino Electric Co., Ltd.
C/- QA Testing Certification Co., Ltd.
Room B519, Building 1
No. 134 East Section of Huancheng North Road,
Jiangbei District, Ningbo, China 31500

Dear Sir/Madam

CERTIFICATE OF APPROVAL: NSW28348 AND MODIFICATION/S

Plug

Please find enclosed a Certificate of Approval and addendum as sought by your application.

Articles of the approved type may now be marketed provided they are marked with the mark (or alternate approval marks) shown on the Certificate.

THE APPROVAL EXPIRES ON THE DATE SHOWN ON THE CERTIFICATE unless it is renewed, extended, suspended or cancelled.

Yours faithfully,

24 September 2020

Email: energyapprovals@customerservice.nsw.gov.au

Website: www.fairtrading.nsw.gov.au

For Secretary, Department of Customer Service



# Certificate of Approval Declared Article

Pursuant to Section 16 (1) of the Gas and Electricity (Consumer Safety) Act 2017

Certificate Number: NSW28348

Issued to:	Phino Electric Co., Ltd.
Class of Article:	Plug
Description of Article:	Plug (Non-rewirable, thermoplastic moulded, two-pin, flat-pin plug with insulated live pins integrally moulded to any <har> certified or Australian approved cord equivalent to LTSA-2F H03VVH2-F 2X0.75mm² or LTSA-2 H03VV-F 2X0.75mm² or GTSA-2F H05VVH2-F 2X0.75mm² or GTSA-2 H05VV-F 2X(0.75~1.0)mm² or H05RR-F 2X(0.75~1.0)mm² or H05RN-F 2X(0.75~1.0)mm² supply cord)</har>
Trade Name or Mark:	PHINO
Ratings:	Volts: 250V Amperes: 10A Watts: Hertz: Other Name Plate Particulars:
Type Reference Code:	PHP-208
Examined for Compliance With:	AS/NZS 3112: 2017
Approval Mark:	Each electrical article of the abovementioned type shall be marked with Approval Number NSW28348 or approved alternate mark
Date of Approval:	18/09/2020
Approval Expires:	18/09/2025 unless suspended, cancelled, renewed or extended



CERTIFIED AADING

24 September 2020

Ref: NSW28348/1



# ADDENDUM TO CERTIFICATE OF APPROVAL: NSW28348 Particulars of Modification(s)

The addition of the following models:

- 1) PHP-304: 3-pin, 250V~, 10A, integrally moulded to any <HAR> certified or Australian approved cord equivalent to LTSA-2F H03VVH2-F 2X0.75mm² or LTSA-2 H03VV-F 2X0.75mm² or GTSA-2F H05VVH2-F 2X0.75mm² or GTSA-2 H05VV-F 2X(0.75~1.0)mm² or H05RR-F 2X(0.75~1.0)mm² or LTSA-3 H03VV-F 3G0.75mm² or GTSA-3 H05VV-F 3G(0.75~1.0)mm² or GTSA-3 H05VV-F 3G(0.75~1.5)mm² or H05RN-F 3G(0.75~1.5)mm² supply cord.
- 2) PHP-317: 3-pin, 250V~, 10A, integrally moulded to any <HAR> certified or Australian approved cord equivalent to LTSA-2F H03VVH2-F 2X0.75mm² or LTSA-2 H03VV-F 2X0.75mm² or GTSA-2F H05VVH2-F 2X0.75mm² or GTSA-3 H05VV-F 2X(0.75~1.0)mm² or H05RR-F 2X(0.75~1.0)mm² or LTSA-3 H03VV-F 3G0.75mm² or GTSA-3 H05VV-F 3G(0.75~1.0)mm² or H05RR-F 3G(0.75~1.0)mm² or H05RR-F 3G(0.75~1.5)mm² supply cord.
- 3) PHP-325: 3-pin, 250V~, 10A, integrally moulded to any <HAR> certified or Australian approved cord equivalent to LTSA-3 H03VV-F 3G0.75mm² or GTSA-3 H05VV-F 3G(0.75~1.0)mm² or H05RR-F 3G(0.75~1.0)mm² or H05RN-F 3G(0.75~1.5)mm² supply cord.

This certificate will expire on 18/09/2025

Approved pursuant to Clause 15 (1) of the Gas and Electricity (Consumer Safety) Regulation 2018:

24 September 2020

For Secretary, Department of Customer Service

Electrical & Gas Approvals, NSW Fair Trading, PO Box 972, Parramatta NSW 2124 02 9895 0722

Email: energyapprovals@customerservice.nsw.gov.au

Website: www.fairtrading.nsw.gov.au

Ref: NSW18895/4



# RENEWAL OF CERTIFICATE OF APPROVAL:

# Particulars of Renewal

The approval of Supply Flexible Cord Model No. GTSA-3 3X1.0 sq mm and all approved modifications has been renewed for a period of FIVE years.

The Approval expires on 24/12/2022 unless it is renewed, extended, suspended or cancelled.

O ELECTRIC For Commissioner for Fair Trading

Energy & Utilities Unit, NSW Fair Trading, PO Box 972, Parramatta NSW 2124 02 9895 0722

Email: energyapprovals@finance.nsw.gov.au

Website: www.fairtrading.nsw.gov.au



File Ref: NSW18895/4 Contact: Admin Clerk Telephone: 02 9895 0722

Week Zhou Phino Electric Co Ltd Floor 6, No. 50, Zhou-Z Street Nei-Hu Area, Taipei Taiwan 114

Dear Sir/Madam

RENEWAL OF CERTIFICATE OF APPROVAL: NSW18895

Supply Flexible Cord

Please find enclosed an addendum to the certificate as sought in your application.

THE APPROVAL NOW EXPIRES ON 24/12/2022 unless it is renewed, extended, suspended or cancelled.

Any sample/s held by this Office should be collected within fifteen (15) days of this letter or the sample/s will be destroyed.

Yours faithfully

For Commissioner for Fair Trading 23 Nowber 2017

Energy & Utilities Unit, NSW Fair Trading, PO Box 972, Parramatta NSW 2124 02 9895 0722

Email: energyapprovals@finance.nsw.gov.au

Website: www.fairtrading.nsw.gov.au



**Test Report** No. CANEC2002114201 Date: 16 Mar 2020 Page 1 of 18

PHINO ELECTRICAL WIRE & CABLE (HUI ZHOU)CO., LTD

NO.86, NORTH OF LIANFA RD, TONGQIAO INDUSTRY BASE, ZHONGKAI HIGHTECH DISTRICT, HUIZHOU CITY, GUANGDONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Power Cord

SGS Job No.: CP20-004485 - SZ Model No.: PHP-301+PHS-301 Client Ref. Info.: Please see REMARK

Supplier: **PHINO** 

Date of Sample Received: 04 Mar 2020

Testing Period: 04 Mar 2020 - 10 Mar 2020

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

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

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

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

Violet,Shi

Approved Signatory

Nobet Shi





#### **Test Report** No. CANEC2002114201 Date: 16 Mar 2020 Page 2 of 18

Test Results:

#### Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN20-021142.001	Black plastic jacket w/ white printing 1#
SN2	CAN20-021142.002	Blue plastic jacket 2A+Yellow/green plastic jacket 2B+Brown plastic jacket 2C
SN3	CAN20-021142.003	Silvery metal 3#
SN4	CAN20-021142.004	Black plastic 4#
SN5	CAN20-021142.005	White plastic 5#

#### Remarks:

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

#### Elementary Analysis, Flame Retardants & Phthalate(s)

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>004</u>
Cadmium (Cd)	mg/kg	2	ND	ND	ND
Lead (Pb)	mg/kg	2	ND	3	ND
Mercury (Hg)	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	mg/kg	8	ND	ND	ND
Sum of PBBs	mg/kg	-	ND	ND	ND
Monobromobiphenyl	mg/kg	5	ND	ND	ND
Dibromobiphenyl	mg/kg	5	ND	ND	ND
Tribromobiphenyl	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	mg/kg	5	ND	ND	ND
Octabromobiphenyl	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	mg/kg	5	ND	ND	ND
Decabromobiphenyl	mg/kg	5	ND	ND	ND
Sum of PBDEs	mg/kg	-	ND	ND	ND



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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANEC2002114201	Date:	16 Mar 2020	Page 3	of 18
Test Item(s)	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>004</u>
Monobromodiphenyl ether	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>005</u>		
Cadmium (Cd)	mg/kg	2	ND		
Lead (Pb)	mg/kg	2	12		
Mercury (Hg)	mg/kg	2	ND		
Hexavalent Chromium (CrVI)	mg/kg	8	ND		
Sum of PBBs	mg/kg	-	ND		
Monobromobiphenyl	mg/kg	5	ND		
Dibromobiphenyl	mg/kg	5	ND		
Tribromobiphenyl	mg/kg	5	ND		
Tetrabromobiphenyl	mg/kg	5	ND		
Pentabromobiphenyl	mg/kg	5	ND		
Hexabromobiphenyl	mg/kg	5	ND		
Heptabromobiphenyl	mg/kg	5	ND		
Octabromobiphenyl	mg/kg	5	ND		
Nonabromobiphenyl	mg/kg	5	ND		
Decabromobiphenyl	mg/kg	5	ND		
Sum of PBDEs	mg/kg	-	ND		
Monobromodiphenyl ether	mg/kg	5	ND		
Dibromodiphenyl ether	mg/kg	5	ND		
Tribromodiphenyl ether	mg/kg	5	ND		
Tetrabromodiphenyl ether	mg/kg	5	ND		
Pentabromodiphenyl ether	mg/kg	5	ND		
Hexabromodiphenyl ether	mg/kg	5	ND		
Heptabromodiphenyl ether	mg/kg	5	ND		



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Test Report	No. CANEC2002114201	Date: 16 Mar 2020		Page 4 of 18	
Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>005</u>		
Octabromodiphenyl ether	mg/kg	5	ND		
Nonabromodiphenyl ether	mg/kg	5	ND		
Decabromodiphenyl ether	mg/kg	5	ND		
Dibutyl phthalate (DBP)	mg/kg	50	ND		
Butyl benzyl phthalate (BBP)	mg/kg	50	ND		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	mg/kg	50	ND		

#### Notes:

- (1) IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:1258 637,25
- (2) 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.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

#### **Elementary Analysis**

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	14
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	μg/cm²	0.10	ND

#### Notes:

- (1) IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37.25
- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination



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## **Test Report**

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Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

#### **Dimethyl Fumarate (DMF)**

Test Method: SGS In-house method(GZTC CHEM-TOP-095), analysis was performed by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dimethyl fumarate(DMF)	0.1	mg/kg	0.1	ND
Comment				PASS

Notes:

(1) The maximum permissible limit is quoted from the document Commission Regulation (EU) No 412/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Commission Decision 2012/48/EU)

#### Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

#### Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonates (PFOS)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	0.01	ND
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	0.01	ND

#### Notes:

^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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#### **Phthalate**

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

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

#### Notes:

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.
- iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.





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(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

## 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.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
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,	-	mg/kg	-	ND
Fluoranthene)				
Sum of 15 PAHs	-	mg/kg	-	ND



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

F 100	Category 1	Category 2		Categ	ory 3
Parameter	Materials, that are destined in mouth closed or material in toys according to Directive 2009/48 EC or materials in articles for use by children up to 3 years with longer	category 1, with foreseeable contact to skin longer than 30 seconds (long-term skin contact) or repeated short term skin contact at intended or		Materials that do not fall in category 1 or 2, with foreseeable contact to skin up to 30 seconds (short- term skin contact) at intended or foreseeable use	
	term according to skin contact (longer than 30s) at intended use	Used by Children (<14 years)	Other Consumer Products	Used by Children (<14 years)	Other Consumer Products
Benzo(a)pyrene (BaP) Benzo(e)pyrene (BeP) Benzo(a)anthracene (BaA) Benzo(b)fluoranthene (BbF) Benzo(j)fluoranthene (BjF) Benzo(k)fluoranthene (BkF) Chrysene (CHR) Dibenzo(a,h)anthracene (DBA) Benzo(g,h,i)perylene (BPE) Indeno(1,2,3-c,d)pyrene (IPY)	< 0.2 mg/kg (each)	< 0.2 mg/kg (each)	< 0.5 mg/kg (each)	< 0.5 mg/kg (each)	< 1 mg/kg (each)
Phenanthrene (PHE) Pyrene (PYR) Anthracene (ANT) Fluoranthene (FLT)	< 1 mg/kg (Sum)	< 5 mg/kg (Sum)	< 10 mg/kg (Sum)	< 20 mg/kg (Sum)	< 50 mg/kg (Sum)
Naphthalene (NAP)	< 1 mg/kg	< 2 m	ng/kg	< 10 r	ng/kg
Sum of 15 PAHs	<1 mg/kg	< 5 mg/kg	< 10 mg/kg	< 20 mg/kg	< 50 mg/kg

#### Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on May 15, 2019, which will be binding for the issue of GS mark certificate from 1 July 2020. The previously valid document (AfPS GS 2014:01 PAK) can be used during the transitional period to determine the procedure for existing certificates and new certificates; also, there are exceptions.

Remark 1: Results shown 002 are of the total weight of mixed samples.

Remark 2: The sample(s) was/were 002 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.



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Item	T∳pe				
Plastic	Jacket Plastic	Insulation Plastic	Plug Plastic	Strain Relief	Tie Plastic
VDE Cable	H03VVH2-F 2C/3C	H05VVH2-F 2C/3C	H03VVH-F 2C/3C	H06VVH-F 2C/3C	H07VVH-F 2C/3C
SAA Cable	GTSA-2F 2C	LTSA-2F 2C	GTSA-2 2C	GTSA-33C	LTSA-33C
CCC Cable	RVV 300/300V	RVV 300/500V	DOM:	CONT.	
	SPT-1,2,3	NISPT-1,2	SVT	SJT	SJTW
	SJTO	1007	1015	1185	1533
UL Cable	2056	2067	2060	2061	2218
	2272	2273	2313	2359	2406
	2447	2450	2468	2854	2871
PSE	VFF	HVFF	VCTF	VCTFK	HVCTF
Cable	HHVCTF	HHVCTFK	VCT	HVCT	
Other	DC CORD	WIRE HARNESS		Marine Control	
	PHP-201(A/AB/C)	PHP-202(R1/R2/R3/R6)	PHP-203(A/R)	PHP-204	PHP-205(E)
	PHP-206(S/W)	PHP-207(G)	PHP-208	PHP-209(P/N)	PHP-211(W)
	PHP-212	PHP-214	PHP-216	PHP-216	PHP-217
	PHP-218	PHP-219	PHP-220(R)	PHP-221	PHP-222
	PHP-223	PHP-224	PHP-225	PHP-226	PHP-227(R)
	PHP-228	PHP-230	PHP-231	PHP-233	PHP-234
	PHP-236	PHP-237	PHP-242	PHP-301(AB/C/G)	PHP-301(R1/R2/R3/R4/R4
	PHP-302(R6/R6/R7)	PHP-304(R/R1/RA/RB/RC/RD)	PHP-305	PHP-306(B)	PHP-307
Plug	PHP-308	PHP-309	PHP-310(R/L)	PHP-311	PHP-312
	PHP-313	PHP-314	PHP-316	PHP-317	PHP-318(A)
	PHP-320	PHP-321	PHP-322	PHP-323	PHP-324
	PHP-325	PHP-326	PHP-328	PHP-329	PHP-330
	PHP-331(R)	PHP-332(A)	PHP-333	PHP-335(R)	PHP-336
	PHP-338	PHP-339	PHP-341(R1/R2)	PHP-342(R/R1/R2/R6)	PHP-343
	PHP-348	PHP-349	PHP-350	PHP-351	PHP-352
	PHP-353	PHP-359	PHP-3360	PHP-361	PHP-362

Other type	PMS-4401/4002/4403/4009/4011/4012/4013					
~ .	PMS-2202/5203/5301/5401/5402/5408/5411/5412/5501/5503/5604/5607/5801/4404/4501					
SR	ALL Strain Relief					
40	PHS-407	PHS-601	PHS-802	8		
	PHS-321	PHS-401	PHS-402	PHS-403	PHS-406	
	PHS-308	PHS-313	PHS-314(W)	PHS-316(A)	PHS-320	
SULTICE!	PHS-303	PHS-304	PHS-306(RL/RR)	PHS-306	PHS-307	
Socket	PHS-222	PHS-235	PHS-236	PHS-301(A/RL/RR)	PHS-302	
	PHS-216	PHS-217(RL)	PHS-218	PHS-219(R/V)	PHS-220	
	PHS-210	PHS-211	PHS-213	PHS-214	PHS-215	
	PHS-204(R)	PHS-205(A/D/V)	PHS-206	PHS-207	PHS-209	



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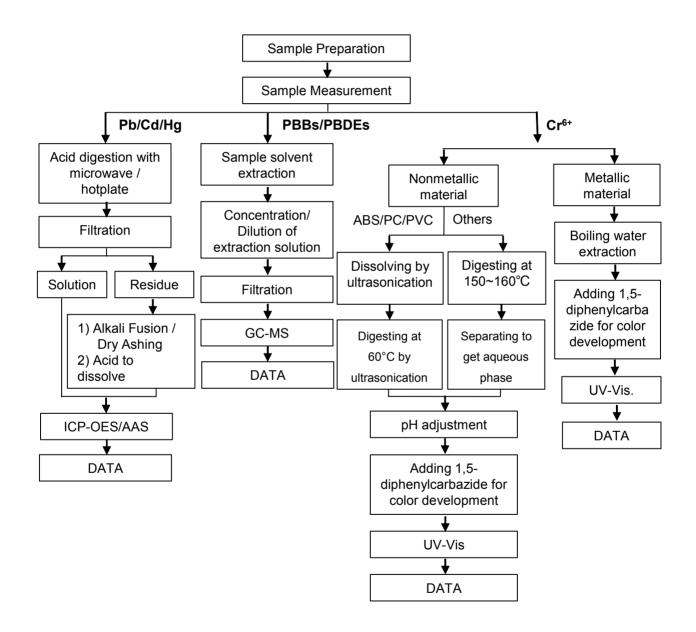


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#### **ATTACHMENTS**

# Pb/Cd/Hg/Cr<sup>0+</sup>/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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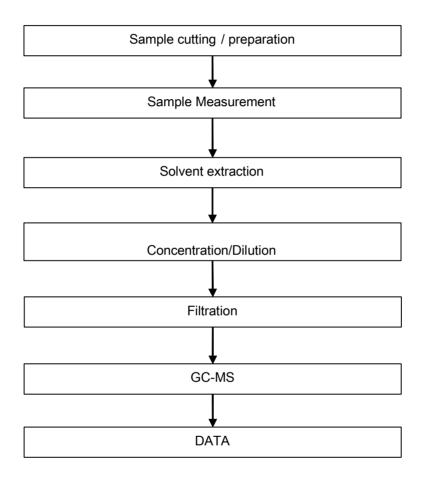
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## **ATTACHMENTS**

## **Phthalates Testing Flow Chart**



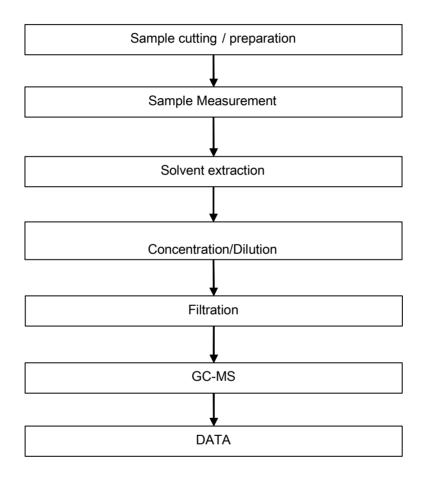




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# **ATTACHMENTS**

# **HBCDD Testing Flow Chart**



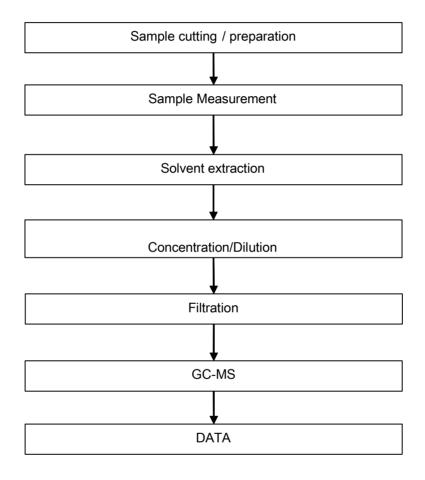




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## **ATTACHMENTS**

# **PAHs Testing Flow Chart**





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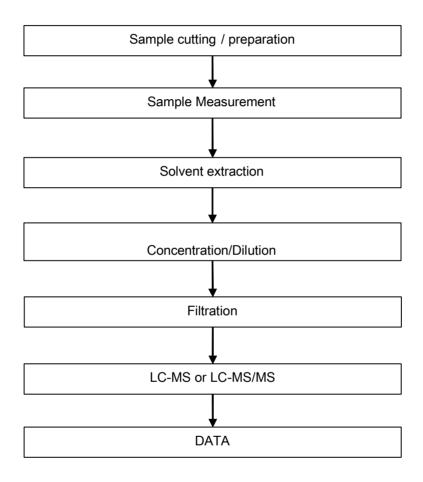
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# **ATTACHMENTS**

# PFOA / PFOS Testing Flow Chart



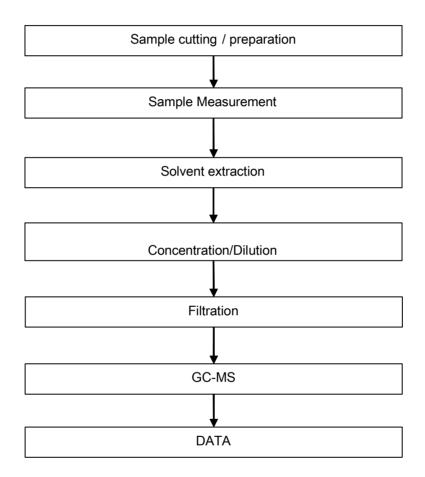




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## **ATTACHMENTS**

# **Dimethyl Furnarate Testing Flow Chart**







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Date: 16 Mar 2020

Sample photo:







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