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Applicant: Inepro Metering BV

Address: Pondweg 7 – 2153 PK Nieuw Vennep, The Netherlands

Test site: 1,6/F.,Building 2,Sanwei Chaxi Industrial Park,Sanwei Community,Hangcheng Street,Baoan

District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name: 1 phase kWh meter

Item No: PRO1-Mod
Brand: Inepro

Sample Received Date: May 18, 2020

Testing Period: May 18, 2020 to May 27, 2020

Test Requested: Conclusion

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Pass





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No.	Sample Description							
1.	Black plastic micropositioner							
2.	Pinseat	Contact pin						
3.	Crystal oscillator	-C 8						
4.	Chip resistor							
5.	8	IC body						
6.	IC	Tin plating						
7.	Chip capacitor							
8.	Barley paper							
9.	Chip LED							
10.		Optical coupling ontology						
11.	Optocoupler	Pin ®						
12.		Green plastic seat						
13.	Terminal block	Silver screw						
14.	-C -C	Metal terminal						
15. 🔞	P 30	Silver film						
16.		Inky polarizer						
17.	display	Display glass						
18.	500	Pin ®						
19.		Lower diffusion						
20.	8	White reflector						
21.		Light board						
22.		Transparent smoothing plate						
23.	Backlight	Silvery tape						
24.	(8)	Leds lamp body						
25.		Pin						
26.	100	Black sleeving						
27.		Black heat shrinkable casing						
28.		Blue three-layer insulated wire						
29.	Magnetic ring inductance	Brown triple insulated wire						
30.		Blue magnetic ring						
31.	Chip triode							
32.	White glue	70 60						
33.	Copper metal terminal							
34.	Tin solder							
35.	Green PCB board							
36.	Glass diode							
37.	100 C	Black heat shrinkable casing						
38.	Color ring resistance	Color ring resistance body						
39.		Pin						

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40.	Chip diode	
41.	Blue capacitor	
42.	8	Brown sleeve
43.	Electrolytic capacitor	Anode foil
44.		Pin ®
45.		Cathode foil
46.		Aluminum shell
47.		Black rubber plug
48.		Electrolytic paper
49.	®	Blue sleeving
50.		Blue plastic shell
51.	Safety Capacitance	Thin film
52.		White injected plastic

Test Result:

(Test Method/ Instrument/ MDL and Limit: See Appendix)

®	Test result (mg/kg)										
No.	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
1	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
2	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
6	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
8	N.D.	N.D.	N.D.	236	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
10 @	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
11	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
13	N.D.	N.D.	N.D.	398	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
14	566	N.D.	N.D.	N.D.	N/A	N/A	N/A®	N/A	N/A	N/A	Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
18	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

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	Test result (mg/kg)									GC.	
No.	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
25 ®	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
26	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
27	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
28	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
30	N.D.	N.D.	® N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
33	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
34	239	N.D.	N.D.	206	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
35	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
36	12939	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
39	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
41	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
42	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
43	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
44	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
45	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
46	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
48	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
49	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
50	N.D.	N.D.	N.D.	352	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
51	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
52	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

Note:

mg/kg = milligram per kilogram

μg/cm² = microgram per square centimeter

N.D.=Not Detected (less than method detection limit)

N/A= Not applicable

MDL = Method Detection Limit

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Exemption

No.	Exemption clause	Content
36	7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g.
®		piezoelectronic devices, or in a glass or ceramic matrix compound

Remark:

- *denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
8	F. 10	The sample is negative for Cr(VI) – The Cr(VI)
- C1	The sample solution is <the 0,10="" cm<sup="" µg="">2</the>	concentration is below the limit of
Ci	equivalent comparison standard solution	quantification. The coating is considered a
		non-Cr(VI) based coating.
@	The sample solution is \geq the 0,10 µg/cm ²	The result is considered to be inconclusive –
_ 2	and \leq the 0,13 µg/cm ² equivalent	Unavoidable coating variations may influence
0	comparison standard solutions	the determination.
	C C O	The sample is positive for $Cr(VI)$ – The $Cr(VI)$
@	The sample solution is $>$ the 0,13 μ g/cm ²	concentration is above the limit of quantification
3	equivalent comparison standard solution	and the statistical margin of error. The sample
	6.G ®	coating is considered to contain Cr(VI).

- Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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Appendix:

Test Item	Test Method/ Instrument	MDL	Limit
X-ray Fluorescence Spectrometry(XRF)	200 -0	®	
Lead (Pb)		200mg/kg	≤1000mg/kg
Cadmium (Cd)		50mg/kg	≤100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013 / XRF	200mg/kg	≤1000mg/kg
Total Chromium		200mg/kg	1
Total Bromine	a Programme GC	200mg/kg	/ ®
Wet Chemistry Method	9	10	<i>a.</i> G
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	≤1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	≤100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	$0.1 \mu g/cm^2$	© /
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum ≤1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum ≤1000mg/kg
Di-iso-butyl phthalate (DIBP)	100 CC	50mg/kg	≤1000mg/kg
Dibutyl phthalate (DBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	≤1000mg/kg
Butylbenzyl phthalate (BBP)	ILC 02321-0.201// GC-WIS	50mg/kg	≤1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)	100 -0	50mg/kg	≤1000mg/kg

Note:

"≤"= Less than or equal to

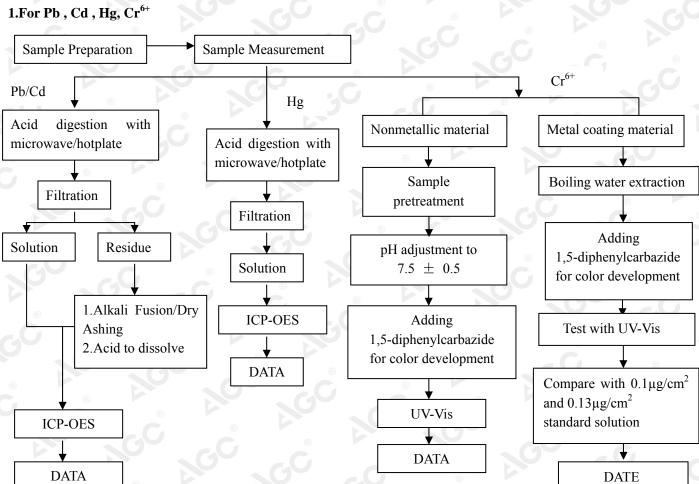
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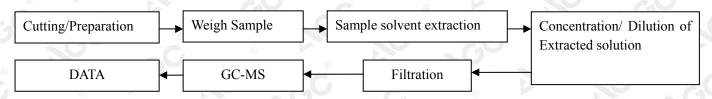
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Test Flow Chart



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr⁶⁺ test method excluded)

2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



This report is to supersede the report with No.: AGC09770200503-003 dated on May 27, 2020

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No.	Tested Part(s)	Sample description			
1.	Black plastic micropositioner	Same as No.52 of the report No. AGC09770200503-001 S1			
2.	Contact pin ®	Same as No.53 of the report No. AGC09770200503-001 S1			
	Chip resistor	Same as No.6 of the report No. AGC09770200503-001 S1			
	Chip capacitor	Same as No.11 of the report No. AGC09770200503-001 S1			
	Chip LED	Same as No.10 of the report No. AGC09770200503-001 S1			
0.	Optical coupling ontology	Same as No.36 of the report No. AGC09770200503-001 S1			
1.	Pin	Same as No.37 of the report No. AGC09770200503-001 S1			
2.	Green plastic seat	Same as No.40 of the report No. AGC09770200503-001 S1			
3.	Silver screw	Same as No.41 of the report No. AGC09770200503-001 S1			
4.	Metal terminal	Same as No.42 of the report No. AGC09770200503-001 S1			
5.	Silver film	Same as No.13 of the report No. AGC09770200503-001 S1			
6.	Inky polarizer	Same as No.14 of the report No. AGC09770200503-001 S1			
7.	Display glass	Same as No.15 of the report No. AGC09770200503-001 S1			
8.	Pin	Same as No.16 of the report No. AGC09770200503-001 S1			
9.	Lower diffusion	Same as No.17 of the report No. AGC09770200503-001 S1			
0.	White reflector	Same as No.18 of the report No. AGC09770200503-001 S1			
1.	Light board	Same as No.19 of the report No. AGC09770200503-001 S1			
2.	Transparent smoothing plate	othing plate Same as No.20 of the report No. AGC09770200503-001 S1			
3.	Silvery tape	Same as No.22 of the report No. AGC09770200503-001 S1			
1.	Chip triode	Same as No.12 of the report No. AGC09770200503-001 S1			
2.	White glue	ue Same as No.55 of the report No. AGC09770200503-001			
3. <	Copper metal terminal	Same as No.1 of the report No. AGC09770200503-001 S1			
8.	Color ring resistance body	Same as No.44 of the report No. AGC09770200503-001 S1			
9.	Pin	Same as No.45 of the report No. AGC09770200503-001 S1			
0.	Chip diode	Same as No.38 of the report No. AGC09770200503-001 S1			
3.	Anode foil	Same as No.25 of the report No. AGC09770200503-001 S1			
4.	Pin	Same as No.26 of the report No. AGC09770200503-001 S1			
5.	Cathode foil	Same as No.27 of the report No. AGC09770200503-001 S1			
6.	Aluminum shell	Same as No.28 of the report No. AGC09770200503-001 S1			
7.	Black rubber plug	Same as No.29 of the report No. AGC09770200503-001 S1			
8.	Electrolytic paper	Same as No.30 of the report No. AGC09770200503-001S1			

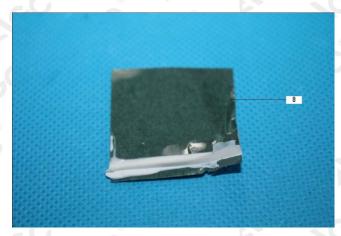
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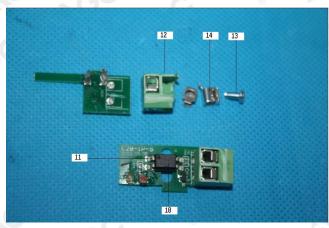
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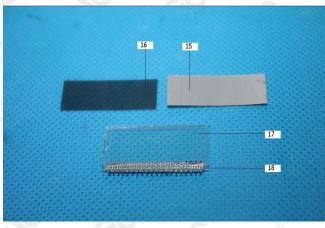
The photo of the sample



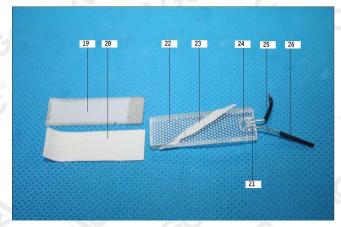








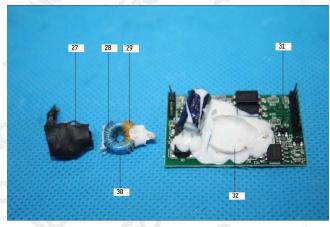
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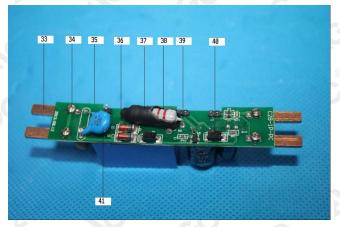


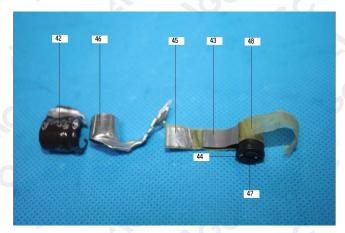
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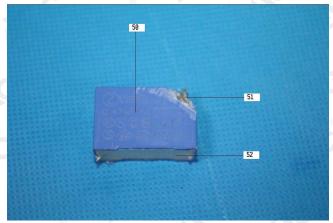


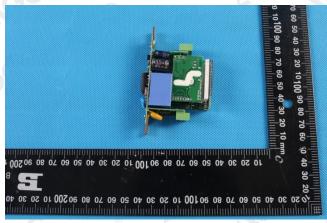






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