

Report No. 48.400.20.7860.00-00/01
Dated 2020-10-09



Technical Report

Client: **Jiangsu Acrel Electric MFG. Co., Ltd.**
No. 5, Dongmeng Road, Nanzha Street, Jiangyin, Jiangsu, P. R. China

Contact person: Han Zhonghua

Test object: **The submitted samples were received and described by client as:**
Product Name: PZ
Model: PZ

Tested sample description: Refer to next page(s).

Purpose of examination:

- (1) According to Directive 2011/65/EU, testing of the Cadmium, Lead, Mercury, Chromium VI, Polybrominated biphenyls (PBBs) and Polybrominated diphenyl ethers (PBDEs).
- (2) According to Directive 2015/863/EU, testing of the Di-(2-ethyl-hexyl) phthalate (DEHP), Di-butyl phthalate (DBP), Butyl-benzyl phthalate (BBP), Di-iso-butyl phthalate (DIBP).

Test method:

- (1) According as EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-2:2017, Electro-technical Products – Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers).
- (2) According as EN 62321-8:2017, the Phthalate analysis was determined by GC/MS.

Test results: Refer to next page(s).

Remarks:

1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.

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Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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1 Order

1.1 Date of Order:

2020-09-25

1.2 Receipt Date of Test Sample:

2020-09-25

1.3 Date of Testing:

2020-09-25 ~ 2020-10-09

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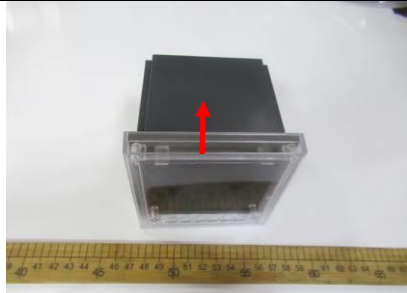

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2. Tested sample description:

Sample No.	Description	Photograph/Location
01.	Dark grey plastic shell	 A photograph showing a dark grey plastic shell component. A red arrow points to the top edge of the shell. A yellow ruler is visible at the bottom of the image for scale.
02.	Transparent cap	 A photograph showing a transparent cap component. A red arrow points to the bottom edge of the cap. A yellow ruler is visible at the bottom of the image for scale.

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3. Test Result

3.1 RoHS testing result

Test Item(s)	Limit	Unit	01	02
Cadmium (Cd)	100	mg/kg	N.D.	N.D.
Lead (Pb).	1000	mg/kg	N.D.	N.D.
Mercury (Hg).	1000	mg/kg	N.D.	N.D.
Hexavalent Chromium (CrVI)	1000	mg/kg	N.D.	N.D.
Sum of PBBs	1000	mg/kg	<50	<50
Monobromobiphenyl	-	mg/kg	N.D.	N.D.
Dibromobiphenyl	-	mg/kg	N.D.	N.D.
Tribromobiphenyl	-	mg/kg	N.D.	N.D.
Tetrabromobiphenyl	-	mg/kg	N.D.	N.D.
Pentabromobiphenyl	-	mg/kg	N.D.	N.D.
Hexabromobiphenyl	-	mg/kg	N.D.	N.D.
Heptabromobiphenyl	-	mg/kg	N.D.	N.D.
Octabromobiphenyl	-	mg/kg	N.D.	N.D.
Nonabromobiphenyl	-	mg/kg	N.D.	N.D.
Decabromobiphenyl	-	mg/kg	N.D.	N.D.
Sum of PBDEs.	1000	mg/kg	51	<50
Monobromodiphenyl ether	-	mg/kg	N.D.	N.D.
Dibromodiphenyl ether	-	mg/kg	N.D.	N.D.
Tribromodiphenyl ether	-	mg/kg	N.D.	N.D.
Tetrabromodiphenyl ether	-	mg/kg	N.D.	N.D.
Pentabromodiphenyl ether	-	mg/kg	N.D.	N.D.
Hexabromodiphenyl ether	-	mg/kg	N.D.	N.D.
Heptabromodiphenyl ether	-	mg/kg	N.D.	N.D.
Octabromodiphenyl ether	-	mg/kg	N.D.	N.D.
Nonabromodiphenyl ether	-	mg/kg	8	N.D.
Decabromodiphenyl ether	-	mg/kg	43	N.D.
Conclusion			Pass	Pass

Remarks:

1. N.D. = Not detected (Detected limit of Cd: 2mg/kg; Pb, Hg, CrVI, PBBs and PBDEs: 5mg/kg)
2. "mg/kg" denotes "milligram per kilogram"

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3.2 Phthalates testing result

Regulated Phthalates	Unit	MDL	CAS No.	01	02
Di-(2-ethyl-hexyl)phthalate, DEHP	%	0.005	117-81-7	N.D.	N.D.
Di-butyl phthalate, DBP	%	0.005	84-74-2	N.D.	N.D.
Butyl-benzyl phthalate, BBP	%	0.005	85-68-7	N.D.	N.D.
Di-iso-butyl phthalate, DIBP	%	0.005	84-69-5	N.D.	N.D.
Conclusion				Pass	Pass

Remark:

1. MDL=Method Detection Limit
2. N.D. =Not Detected (<MDL)
3. “%” = percent by weight

TÜV SÜD Certification and Testing (China) Co., Ltd.

Prepared by:



Mr. Guo XU

Checked by:



Mr. Feng ZHANG

--END OF REPORT--

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