

TEST REPORT

Job No./Report No TR920567

Date:12 April 2016

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KUAS TEKNOLOJİ ELEKTRONİK YAZ. VE İSİ SİSTEMLERİ SAN. TIC. LTD. ŞTİ.YILDIZ CENTER İŞ MERKEZİ HADIMKÖY YOLU CAD. ÇAKMAKLI MAH. NO:99/2 KAT 1 BÜYÜKÇEKMECE / İSTANBUL
TEL: 05321327130

FAX: -

E-Mail: havva@kuasteknoloji.com

To the attention of Havva Ülkücü

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

Sample Submitted By	: KUAS TEKNOLOJİ ELEKTRONİK YAZ. VE İSİ SİSTEMLERİ SAN. TIC. LTD. ŞTİ.
Sample Description	: ELEKTRİKLİ PANEL RADYATÖR / INFRARED ISITICI
Article No.	: Not Provided
Model No.	: HYBRIDBOARD,ISP ISP-G
PO / Order No.	: Not Provided
Reference No.	: Not Provided
Client	: Not Provided
End Use	: Not Provided
Sample Receiving Date	: 1 April 2016
Testing Period	: 1 April 2016 ~ 12 April 2016
Service Type	: NORMAL
Test Requested	: Selected test(s) as requested by client.
Test Method	: Please refer to next page(s)
Test Result(s)	: Please refer to next page(s)

Conclusion : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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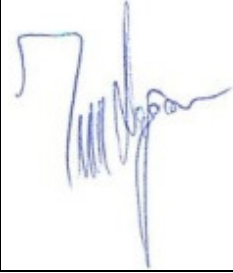
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The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.
In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd
Kontrol Servisleri A.Ş.

Tuğrul Doğan
Customer Services Supervisor

Ayşe Gönen
Customer Services Team Leader




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Test Part Description :

- No.1: White dye of the ground part
- No.2: Silver metallic ground part without dye
- No.3: White metallic hinge part
- No.4: Black plastic stands
- No.5: White plastic temperature adjustment button
- No.6: White ceramic thermostat ground part
- No.7: Gold metallic ground part of the thermostat
- No.8: Gold metallic adjustment shaft of the thermostat
- No.9: Black plastic ground part of the thermostat
- No.10: Silver metallic stick of the thermostat
- No.11: Silver metallic wire of the thermostat
- No.12: Silver metallic screw of the thermostat
- No.13: Transparent glass ground part of the radiator
- No.14: Silver metallic back cover of the glass radiator
- No.15: Silver metallic hinge part of the back cover
- No.16: Yellow fireproof fiber
- No.17: Grey metallic back cover
- No.18: Grey interfacing part of the radiator
- No.19: Silver metallic rivet part
- No.20: Silver metallic big loaf
- No.21: Silver metallic little loaf
- No.22: Silver metallic screws
- No.23: White plastic pin
- No.24: Silver metallic pin screw
- No.25: White plastic plug body
- No.26: Black plastic plug inside body
- No.27: Silver metallic inside part of the plug
- No.28: Silver metallic plug insert part
- No.29: White plastic plug cable
- No.30: Black plastic cable connector part
- No.31: Brown plastic cable cover
- No.32: Blue plastic cable cover
- No.33: Yellow, green plastic cable cover
- No.34: Green plastic cable cover
- No.35: White plastic cable cover
- No.36: Black plastic cable cover
- No.37: Bronze copper wire inside of the cables
- No.38: Silver metallic socket edge part

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CTSL-F-5.10-26NF / First Publish Date:11.03.2013 / Revision Date / No.: 10.12.2015 / 4

Flame Retardants (ROHS)¹

Test Item(s):	Unit	Test Method	Results				MDL	Limit
			1	4	5	9		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			1	4	5	9		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	68,6 mg/kg	n.d.	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	68,6 mg/kg	n.d.	n.d.	5	-

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			16	18	23	25		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			16	18	23	25		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			26	29	30	31		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			26	29	30	31		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	13,1 mg/kg	n.d.	n.d.	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	13,1 mg/kg	n.d.	n.d.	n.d.	5	-

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			32	33	34	35		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			32	33	34	35		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	5	-

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Flame Retardants (ROHS)¹

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			36		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results	MDL	Limit
			36		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	5	-

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results					MDL	Limit
			1	5	16	23	25		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	3,6 mg/kg	n.d.	n.d.	n.d.	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	-	n.d.*	n.d.*	n.d.*	n.d.*	n.d.*	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) " * " = Test result for Chromium VI is considered as "n.d" since Total Chromium is not found by IEC 62321 test method.

(e) " - " = Not Regulated

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Test Item(s):	Unit	Test Method	Results		MDL	Limit
			30	36		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	2,9 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	-	n.d.*	n.d.*	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) " * " = Test result for Chromium VI is considered as "n.d" since Total Chromium is not found by IEC 62321 test method.

(e) " - " = Not Regulated

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results					MDL	Limit
			4	9	18	26	29		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	7,4 mg/kg	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	189,7 mg/kg	7,7 mg/kg	n.d.	n.d.	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-VIS)	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			13		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	3,7 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-VIS)	n.d.	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit

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Test Item(s):	Unit	Test Method	Results					MDL	Limit
			31	32	33	34	35		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	n.d.	n.d.	8,8 mg/kg	17,7 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-VIS)	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results			MDL	Limit
			6	7	27		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	3,9 mg/kg	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	4,0 mg/kg	428,5 mg/kg	60,4 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	-	-	Negative*	Negative*	Negative*	-	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = Positive means the presence of CrVI on the tested areas.

Negative means the absence of CrVI on the tested areas.

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

(e) “ * “ = Test result for Chromium VI is considered as “negative” since Total Chromium is not found by IEC 62321 test method.

(f) “ - “ = Not Regulated

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Test Item(s):	Unit	Test Method	Results		MDL	Limit
			37	38		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	7,4 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	-	-	Negative*	Negative*	-	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = Positive means the presence of CrVI on the tested areas.

Negative means the absence of CrVI on the tested areas.

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

(e) " * " = Test result for Chromium VI is considered as "negative" since Total Chromium is not found by IEC 62321 test method.

(f) " - " = Not Regulated

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			28**		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	6,0 mg/kg	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	24000,2 mg/kg	2	40000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	2	1000
Hexavalent Chromium (CrVI)	µg/cm ²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	Negative*	0.10	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = 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 n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing

(e) - = not regulated

(f) IEC 62321 series is equivalent to EN 62321 series

** 6(c) - Copper alloy containing up to 4 % lead by weight.

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results				MDL	Limit
			2	3	8	10		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	n.d.	3,4 mg/kg	48,2 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	µg/cm ²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	n.d.	n.d.	n.d.	n.d.	0.10	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = 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 n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing

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Test Item(s):	Unit	Test Method	Results			MDL	Limit
			11	12	14		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	5,5 mg/kg	4,8 mg/kg	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	µg/cm ²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	n.d.	n.d.	n.d.	0.10	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = 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 n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing

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Test Item(s):	Unit	Test Method	Results				MDL	Limit
			15	17	19	20		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	n.d.	21,3 mg/kg	3,2 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	µg/cm ²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	n.d.	n.d.	n.d.	n.d.	0.10	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = 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 n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing

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Test Item(s):	Unit	Test Method	Results			MDL	Limit
			21	22	24		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	9,3 mg/kg	2,1 mg/kg	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	µg/cm ²	With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS)	n.d.	n.d.	n.d.	0.10	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = 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 n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

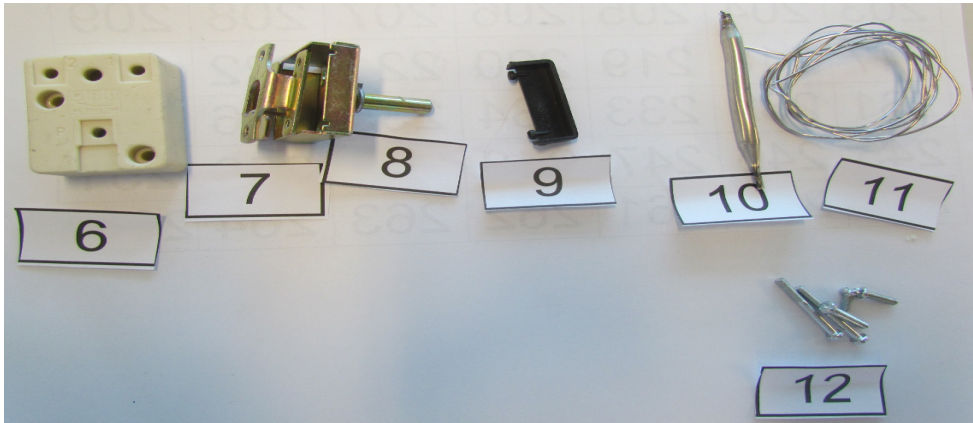
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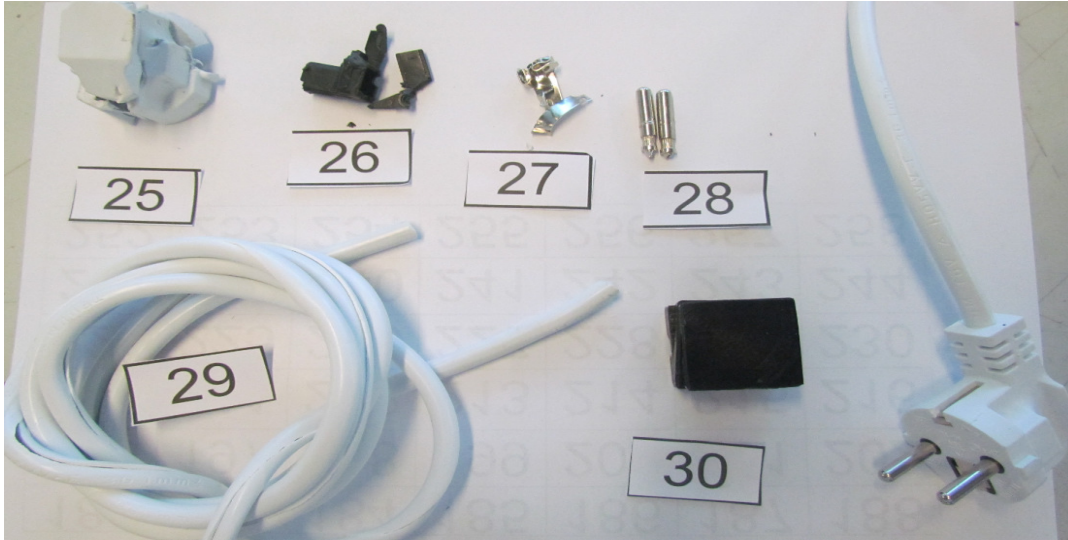


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* * * End of Test Report * * *

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