

## TEST REPORT

TEST REPORT NUMBER : TURT180142859 DATE: 06 August, 2018

APPLICANT: Güvenir Elektrik İth. Ihr. San. Tic. Ltd. Şti.

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SAMPLE DESCRIPTION : See Attachment

DATE IN : 26 / July / 2018 (09:48)

DATE OUT : 06 / August / 2018

REQUEST : In this test report, only Lead (Pb) test was performed according to 2011/65/EU Directive

COUNTRY OF ORIGIN : CHINA

RESULTS : SEE ATTACHMENT

CONCLUSION : SEE ATTACHMENT

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PP



Doğan Güneş KILINÇ

Gözde KÖKCAN  
Customer Care Executive



Zeynep Akin  
Chemical Laboratory Manager

	DESCRIPTION	CONCLUSION
	<b>Sample</b>	
1	<b>O.C.M 01 S 2,5 AMP. FULL PIN WHITE</b>	
1.1	WHITE PLS CARCAS	PASS
1.2	SILVER METAL PLUG TIP	PASS
2	<b>O.C.M 03 S 10 AMP. FULL PIN BLACK</b>	
2.1	BLACK PLS CARCAS	PASS
2.2	SILVER METAL PLUG TIP	PASS
3	<b>O.C.M 07 SL 16 AMP. FULL PIN BLACK</b>	
3.1	BLACK PLS CARCAS	PASS
3.2	SILVER METAL PLUG TIP	PASS
3.3	SILVER METAL PART	PASS
4	<b>O.C.M 08 SL 16 AMP. FULL PIN BLACK</b>	
4.1	BLACK PLS CARCAS	PASS
4.2	SILVER METAL PLUG TIP	PASS
4.3	SILVER METAL PART	PASS
5	<b>O.C.M 01 H 2,5 AMP. EMPTY PIN WHITE</b>	
5.1	WHITE PLS CARCAS	PASS
5.2	SILVER METAL PLUG TIP	PASS
6	<b>O.C.M 03 H 10 AMP. EMPTY PIN BLACK</b>	
6.1	BLACK PLS CARCAS	PASS
6.2	SILVER METAL PLUG TIP	PASS
7	<b>O.C.M 07 HL 16 AMP. EMPTY PIN BLACK</b>	
7.1	BLACK PLS CARCAS	PASS
7.2	SILVER METAL PLUG TIP	PASS
7.3	SILVER METAL PART	PASS
8	<b>O.C.M 08 HL 16 AMP. EMPTY PIN BLACK</b>	
8.1	BLACK PLS CARCAS	PASS
8.2	SILVER METAL PLUG TIP	PASS
8.3	SILVER METAL PART	PASS
9	<b>O.C.M 09 13 AMP. ENGLISH CARCASS</b>	
9.1	BLACK PLS CARCAS	PASS
9.2	SILVER METAL BIG PLUG TIP	PASS
9.3	SILVER METAL SMALL PLUG TIP	PASS
9.4	GOLD METAL PART	PASS
9.5	BEIGE FUSE	PASS
9.6	WHITE PLS PART	PASS
10	<b>O.C.M 10 COMPUTER SOCKET</b>	
10.1	COMPUTER SOCKET BODY	PASS
10.2	COMPUTER SOCKET COVER	PASS
10.3	BRONZE METAL LEG	PASS
11	<b>O.C.M 11 S SOUTH AFRICA FULL PIN</b>	
11.1	THIN PLUG TIP	PASS
11.2	THICK PLUG TIP	PASS
11.3	WHITE PLS CARCAS	PASS
12	<b>O.C.M 11 H SOUTH AFRICA EMPTY PIN</b>	
12.1	THIN PLUG TIP	PASS
12.2	THICK PLUG TIP	PASS
12.3	WHITE PLS CARCAS	PASS

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	1.1	1.2	2.1
CadmIum (Cd) Content	NR	NR	NR
ChromIum VI (Cr+6) Content (ppm) (for non - metal)	NR	NA	NR
ChromIum VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NA	NR	NA
Lead (Pb) Content	ND	25900 ppm*	ND
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>PolybromInated BIphenyls (PBB)</b>	<b>NR</b>	<b>NA</b>	<b>NR</b>
MonobromobIphenyl (MonoBB)	NR	NA	NR
DIbromobIphenyl (DIBB)	NR	NA	NR
TrIbromobIphenyl (TrIBB)	NR	NA	NR
TetrabromobIphenyl (TetraBB)	NR	NA	NR
PentabromobIphenyl (PentaBB)	NR	NA	NR
HexabromobIphenyl (HexaBB)	NR	NA	NR
HeptabromobIphenyl (HeptaBB)	NR	NA	NR
OctabromobIphenyl (OctaBB)	NR	NA	NR
NonabromobIphenyl (NonaBB)	NR	NA	NR
DecabromobIphenyl (DecaBB)	NR	NA	NR
<b>PolybromInated DIphenyl Ethers (PBDE)</b>	<b>NR</b>	<b>NA</b>	<b>NR</b>
MonobromodIphenyl Ether (MonoBDE)	NR	NA	NR
DIbromodIphenyl Ether (DIBDE)	NR	NA	NR
TrIbromodIphenyl Ether (TrIBDE)	NR	NA	NR
TetrabromodIphenyl Ether (TetraBDE)	NR	NA	NR
PentabromodIphenyl Ether (PentaBDE)	NR	NA	NR
HexabromodIphenyl Ether (HexaBDE)	NR	NA	NR
HeptabromodIphenyl Ether (HeptaBDE)	NR	NA	NR
OctabromodIphenyl Ether (OctaBDE)	NR	NA	NR
NonabromodIphenyl Ether (NonaBDE)	NR	NA	NR
DecabromodIphenyl Ether (DecaBDE)	NR	NA	NR

Remarks : ppm=Parts per mIllIon based on dry weight of sample  
 µg/cm<sup>2</sup>=MICrogram per square centImetre  
 mg/kg with 50 cm<sup>2</sup>=MILLIgram per kilogram with 50 square centImetre  
 ND =Not detected NR =Not requested  
 EstImated Total UncertanIty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

\* Lead RoHS limit for brass item is 40000 ppm.

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	2.2	3.1	3.2
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR	NA
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA	NR
Lead (Pb) Content	25600 ppm*	ND	27400 ppm*
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromobiphenyl (MonoBB)	NA	NR	NA
Dibromobiphenyl (DIBB)	NA	NR	NA
Tribromobiphenyl (TriBB)	NA	NR	NA
Tetrabromobiphenyl (TetraBB)	NA	NR	NA
Pentabromobiphenyl (PentaBB)	NA	NR	NA
Hexabromobiphenyl (HexaBB)	NA	NR	NA
Heptabromobiphenyl (HeptaBB)	NA	NR	NA
Octabromobiphenyl (OctaBB)	NA	NR	NA
Nonabromobiphenyl (NonaBB)	NA	NR	NA
Decabromobiphenyl (DecaBB)	NA	NR	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NR	NA
Dibromodiphenyl Ether (DIBDE)	NA	NR	NA
Tribromodiphenyl Ether (TriBDE)	NA	NR	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NR	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NR	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NR	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NR	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NR	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NR	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NR	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

\* Lead RoHS limit for brass item is 40000 ppm.

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	3.3	4.1	4.2
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR	NA
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA	NR
Lead (Pb) Content	ND	ND	24300 ppm*
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromobiphenyl (MonoBB)	NA	NR	NA
Dibromobiphenyl (DIBB)	NA	NR	NA
Tribromobiphenyl (TriBB)	NA	NR	NA
Tetrabromobiphenyl (TetraBB)	NA	NR	NA
Pentabromobiphenyl (PentaBB)	NA	NR	NA
Hexabromobiphenyl (HexaBB)	NA	NR	NA
Heptabromobiphenyl (HeptaBB)	NA	NR	NA
Octabromobiphenyl (OctaBB)	NA	NR	NA
Nonabromobiphenyl (NonaBB)	NA	NR	NA
Decabromobiphenyl (DecaBB)	NA	NR	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NR	NA
Dibromodiphenyl Ether (DIBDE)	NA	NR	NA
Tribromodiphenyl Ether (TriBDE)	NA	NR	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NR	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NR	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NR	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NR	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NR	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NR	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NR	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

\* Lead RoHS limit for brass item is 40000 ppm.

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	4.3	5.1	5.2
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR	NA
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA	NR
Lead (Pb) Content	ND	ND	130 ppm
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromobiphenyl (MonoBB)	NA	NR	NA
Dibromobiphenyl (DIBB)	NA	NR	NA
Tribromobiphenyl (TriBB)	NA	NR	NA
Tetrabromobiphenyl (TetraBB)	NA	NR	NA
Pentabromobiphenyl (PentaBB)	NA	NR	NA
Hexabromobiphenyl (HexaBB)	NA	NR	NA
Heptabromobiphenyl (HeptaBB)	NA	NR	NA
Octabromobiphenyl (OctaBB)	NA	NR	NA
Nonabromobiphenyl (NonaBB)	NA	NR	NA
Decabromobiphenyl (DecaBB)	NA	NR	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NR	NA
Dibromodiphenyl Ether (DIBDE)	NA	NR	NA
Tribromodiphenyl Ether (TriBDE)	NA	NR	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NR	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NR	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NR	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NR	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NR	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NR	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NR	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	6.1	6.2	7.1
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NR	NA	NR
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NA	NR	NA
Lead (Pb) Content	ND	73 ppm	ND
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NR</b>	<b>NA</b>	<b>NR</b>
Monobromobiphenyl (MonoBB)	NR	NA	NR
Dibromobiphenyl (DIBB)	NR	NA	NR
Tribromobiphenyl (TriBB)	NR	NA	NR
Tetrabromobiphenyl (TetraBB)	NR	NA	NR
Pentabromobiphenyl (PentaBB)	NR	NA	NR
Hexabromobiphenyl (HexaBB)	NR	NA	NR
Heptabromobiphenyl (HeptaBB)	NR	NA	NR
Octabromobiphenyl (OctaBB)	NR	NA	NR
Nonabromobiphenyl (NonaBB)	NR	NA	NR
Decabromobiphenyl (DecaBB)	NR	NA	NR
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NR</b>	<b>NA</b>	<b>NR</b>
Monobromodiphenyl Ether (MonoBDE)	NR	NA	NR
Dibromodiphenyl Ether (DIBDE)	NR	NA	NR
Tribromodiphenyl Ether (TriBDE)	NR	NA	NR
Tetrabromodiphenyl Ether (TetraBDE)	NR	NA	NR
Pentabromodiphenyl Ether (PentaBDE)	NR	NA	NR
Hexabromodiphenyl Ether (HexaBDE)	NR	NA	NR
Heptabromodiphenyl Ether (HeptaBDE)	NR	NA	NR
Octabromodiphenyl Ether (OctaBDE)	NR	NA	NR
Nonabromodiphenyl Ether (NonaBDE)	NR	NA	NR
Decabromodiphenyl Ether (DecaBDE)	NR	NA	NR

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	7.2	7.3	8.1
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR	NR
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA	NA
Lead (Pb) Content	107 ppm	ND	ND
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NA</b>	<b>NR</b>
Monobromobiphenyl (MonoBB)	NA	NA	NR
Dibromobiphenyl (DIBB)	NA	NA	NR
Tribromobiphenyl (TriBB)	NA	NA	NR
Tetrabromobiphenyl (TetraBB)	NA	NA	NR
Pentabromobiphenyl (PentaBB)	NA	NA	NR
Hexabromobiphenyl (HexaBB)	NA	NA	NR
Heptabromobiphenyl (HeptaBB)	NA	NA	NR
Octabromobiphenyl (OctaBB)	NA	NA	NR
Nonabromobiphenyl (NonaBB)	NA	NA	NR
Decabromobiphenyl (DecaBB)	NA	NA	NR
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NA</b>	<b>NR</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NR
Dibromodiphenyl Ether (DIBDE)	NA	NA	NR
Tribromodiphenyl Ether (TriBDE)	NA	NA	NR
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NR
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NR
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NR
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NR
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NR
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NR
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NR

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	8.2	8.3	9.1
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR	NR
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA	NA
Lead (Pb) Content	79 ppm	ND	ND
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NA</b>	<b>NR</b>
Monobromobiphenyl (MonoBB)	NA	NA	NR
Dibromobiphenyl (DIBB)	NA	NA	NR
Tribromobiphenyl (TriBB)	NA	NA	NR
Tetrabromobiphenyl (TetraBB)	NA	NA	NR
Pentabromobiphenyl (PentaBB)	NA	NA	NR
Hexabromobiphenyl (HexaBB)	NA	NA	NR
Heptabromobiphenyl (HeptaBB)	NA	NA	NR
Octabromobiphenyl (OctaBB)	NA	NA	NR
Nonabromobiphenyl (NonaBB)	NA	NA	NR
Decabromobiphenyl (DecaBB)	NA	NA	NR
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NA</b>	<b>NR</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NR
Dibromodiphenyl Ether (DIBDE)	NA	NA	NR
Tribromodiphenyl Ether (TriBDE)	NA	NA	NR
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NR
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NR
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NR
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NR
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NR
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NR
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NR

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	9.2	9.3	9.4
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NA	NA
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NR	NR
Lead (Pb) Content	15800 ppm*	16700 ppm*	ND
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Monobromobiphenyl (MonoBB)	NA	NA	NA
Dibromobiphenyl (DIBB)	NA	NA	NA
Tribromobiphenyl (TriBB)	NA	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NA
Dibromodiphenyl Ether (DIBDE)	NA	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

\* Lead RoHS limit for brass item is 40000 ppm.

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	9.5	9.6	10.1
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NR	NR	NR
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NA	NA	NA
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NR</b>	<b>NR</b>
Monobromobiphenyl (MonoBB)	NA	NR	NR
Dibromobiphenyl (DIBB)	NA	NR	NR
Tribromobiphenyl (TriBB)	NA	NR	NR
Tetrabromobiphenyl (TetraBB)	NA	NR	NR
Pentabromobiphenyl (PentaBB)	NA	NR	NR
Hexabromobiphenyl (HexaBB)	NA	NR	NR
Heptabromobiphenyl (HeptaBB)	NA	NR	NR
Octabromobiphenyl (OctaBB)	NA	NR	NR
Nonabromobiphenyl (NonaBB)	NA	NR	NR
Decabromobiphenyl (DecaBB)	NA	NR	NR
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NR</b>	<b>NR</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NR	NR
Dibromodiphenyl Ether (DIBDE)	NA	NR	NR
Tribromodiphenyl Ether (TriBDE)	NA	NR	NR
Tetrabromodiphenyl Ether (TetraBDE)	NA	NR	NR
Pentabromodiphenyl Ether (PentaBDE)	NA	NR	NR
Hexabromodiphenyl Ether (HexaBDE)	NA	NR	NR
Heptabromodiphenyl Ether (HeptaBDE)	NA	NR	NR
Octabromodiphenyl Ether (OctaBDE)	NA	NR	NR
Nonabromodiphenyl Ether (NonaBDE)	NA	NR	NR
Decabromodiphenyl Ether (DecaBDE)	NA	NR	NR

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	10.2	10.3	11.1
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NA	NA
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NR	NR
Lead (Pb) Content	ND	ND	16000 ppm*
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Monobromobiphenyl (MonoBB)	NA	NA	NA
Dibromobiphenyl (DIBB)	NA	NA	NA
Tribromobiphenyl (TriBB)	NA	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NA
Dibromodiphenyl Ether (DIBDE)	NA	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

\* Lead RoHS limit for brass item is 40000 ppm.

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT		
	Part		
	11.2	11.3	12.1
Cadmium (Cd) Content	NR	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR	NA
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA	NR
Lead (Pb) Content	16500 ppm*	ND	71 ppm
Mercury (Hg) Content	NR	NR	NR
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromobiphenyl (MonoBB)	NA	NR	NA
Dibromobiphenyl (DIBB)	NA	NR	NA
Tribromobiphenyl (TriBB)	NA	NR	NA
Tetrabromobiphenyl (TetraBB)	NA	NR	NA
Pentabromobiphenyl (PentaBB)	NA	NR	NA
Hexabromobiphenyl (HexaBB)	NA	NR	NA
Heptabromobiphenyl (HeptaBB)	NA	NR	NA
Octabromobiphenyl (OctaBB)	NA	NR	NA
Nonabromobiphenyl (NonaBB)	NA	NR	NA
Decabromobiphenyl (DecaBB)	NA	NR	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NR</b>	<b>NA</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NR	NA
Dibromodiphenyl Ether (DIBDE)	NA	NR	NA
Tribromodiphenyl Ether (TriBDE)	NA	NR	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NR	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NR	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NR	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NR	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NR	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NR	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NR	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

\* Lead RoHS limit for brass item is 40000 ppm.

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**

TESTING ITEM	RESULT	
	Part	
	12.2	12.3
Cadmium (Cd) Content	NR	NR
Chromium VI (Cr+6) Content (ppm) (for non - metal)	NA	NR
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NR	NA
Lead (Pb) Content	108 ppm	ND
Mercury (Hg) Content	NR	NR
Flame Retardants		
<b>Polybrominated Biphenyls (PBB)</b>	<b>NA</b>	<b>NR</b>
Monobromobiphenyl (MonoBB)	NA	NR
Dibromobiphenyl (DIBB)	NA	NR
Tribromobiphenyl (TriBB)	NA	NR
Tetrabromobiphenyl (TetraBB)	NA	NR
Pentabromobiphenyl (PentaBB)	NA	NR
Hexabromobiphenyl (HexaBB)	NA	NR
Heptabromobiphenyl (HeptaBB)	NA	NR
Octabromobiphenyl (OctaBB)	NA	NR
Nonabromobiphenyl (NonaBB)	NA	NR
Decabromobiphenyl (DecaBB)	NA	NR
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	<b>NA</b>	<b>NR</b>
Monobromodiphenyl Ether (MonoBDE)	NA	NR
Dibromodiphenyl Ether (DIBDE)	NA	NR
Tribromodiphenyl Ether (TriBDE)	NA	NR
Tetrabromodiphenyl Ether (TetraBDE)	NA	NR
Pentabromodiphenyl Ether (PentaBDE)	NA	NR
Hexabromodiphenyl Ether (HexaBDE)	NA	NR
Heptabromodiphenyl Ether (HeptaBDE)	NA	NR
Octabromodiphenyl Ether (OctaBDE)	NA	NR
Nonabromodiphenyl Ether (NonaBDE)	NA	NR
Decabromodiphenyl Ether (DecaBDE)	NA	NR

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested  
 Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±6% ))

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**(B) REQUIREMENT:**

SUBSTANCE	LIMITS
Cadmium (Cd)Content	0.01 % (100 ppm)
Chromium VI (Cr+6)Content(ppm)(for non metal)	0.1 % (1000 ppm)
Chromium VI (Cr+6)Content( $\mu\text{g}/\text{cm}^2$ )for metal)	Colorimetric result < 0.10 $\mu\text{g}/\text{cm}^2$ Qualitative Result ≥ 0.10 $\mu\text{g}/\text{cm}^2$ and ≤ 0.13 $\mu\text{g}/\text{cm}^2$ Negative > 0.13 $\mu\text{g}/\text{cm}^2$ Inconclusive Positive
Lead (Pb) Content	0.1 % (1000 ppm)
Mercury (Hg) Content	0.1 % (1000 ppm)
Flame Retardants	0.1 % (1000 ppm)

**(C) TEST METHOD :**

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	Plastic : 2.5 ppm, Metal : 5 ppm, Ceramic : 1.25 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5
Mercury (Hg)Content	With reference to IEC 62321-4:2017,by microwave or acid digestion and determined by ICP-	Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321-7-2:2017,by alkaline digestion and determined by UV-VIS spectrophotometer	Plastic : 25 ppm (PVC based) /8.33 ppm (other), Ceramic : 8.33 ppm
Chromium VI (Cr6+) (For metal)	With reference to IEC 62321-7-1:2015 ,by boiling water extraction and determined by UV-VIS spectrophotometer	0.1 mg/kg with 50 $\text{cm}^2$ (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321-6:2015,by solvent extraction and determined by GC/MS and	5 ppm

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Sample 1



Part 1.1



Part 1.2





Sample 2



Part 2.1



Part 2.2



**Sample 3**



**Part 3.1**



**Part 3.2**



**Part 3.3**



Sample 4



Part 4.1



Part 4.2



Part 4.3



**Sample 5**



**Part 5.1**



**Part 5.2**



Sample 6



Part 6.1



Part 6.2



**Sample 7**



**Part 7.1**



**Part 7.2**



**Part 7.3**



**Sample 8**



**Part 8.1**



**Part 8.2**



**Part 8.3**



Sample 9



Part 9.1



Part 9.2



Part 9.3



Part 9.4





**Part 9.5**



**Part 9.6**



Sample 10



Part 10.1



Part 10.2



Part 10.3



Sample 11



Part 11.1



Part 11.2



Part 11.3



**Sample 12**



**Part 12.1**



**Part 12.2**



**Part 12.3**



**## END OF TEST REPORT ##**

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