

TEST REPORT

Job No./Report No TR2285227

Date: 06 April 2023

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KASTRO KABLO SAN. TİC. A.Ş.

Çerkezköy OSB. Karaağaç Mah. Fatih Bulvarı No:30/j Kapaklı – Tekirdağ

TEL: 0282 758 23 25

To the attention of Alican Dinçoğlu

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

Sample Submitted By : KASTRO KABLO SAN. TİC. A.Ş.
Sample Description : Cable
Brand Name : Kastro Kablo
Sample Receiving Date : 22 March 2023
Testing Period : 22 March 2023 ~ 06 April 2023
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), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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SGS applied shared risk decision rule.

SGS does not verify authenticity of any Brand/Trademark of products. Buyers must check if the product is genuine with the Brand/Trademark owner directly.

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the TURKAK Accreditation Scope of this Laboratory.

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Test Part Description:

CONCLUSION

1	Kastro Cable (LSZH-Dca NB 1783-0031E-EX18091-3-5-000006m)	
1.1	Purple Plastic Outer Cable	PASS
1.2	Blue Silver Metal Cable Thick Gelatine Protection	PASS
1.3	Blue Silver Metal Cable Thin Gelatine Protection	PASS
1.4	White Plastic Inner Cable	PASS
1.5	Orange Plastic Inner Cable	PASS
1.6	Green Plastic Inner Cable	PASS
1.7	Blue Plastic Inner Cable	PASS
1.8	Brown Plastic Inner Cable	PASS
1.9	Silver Metal Wire in Cable	PASS
1.10	Bronze Metal Wire in Cable	PASS
2	Kastro Cable (Eca 044556 001005m)	
2.1	Grey Plastic Outer Cable	PASS
2.2	Silver Metal Cable Inner Fastener	PASS
2.3	Transparent Plastic Cable Inner Gelatine	PASS
2.4	White Plastic Inner Cable	PASS
2.5	Pink Plastic Inner Cable	PASS
2.6	Yellow Plastic Inner Cable	PASS
2.7	Black Plastic Inner Cable	PASS
2.8	Grey Plastic Inner Cable	PASS
2.9	Blue Plastic Inner Cable	PASS
2.10	Green Plastic Inner Cable	PASS
2.11	Grey-Pink Plastic Inner Cable	PASS
2.12	Red Plastic Inner Cable	PASS
2.13	Brown Plastic Inner Cable	PASS
2.14	Red-Brown Plastic Inner Cable	PASS
2.15	Purple Plastic Inner Cable	PASS
2.16	Silver Metal Wire in Cable	PASS
2.17	Bronze Metal Wire in Cable	PASS
3	Kastro Cable(57-002079m)	
3.1	Grey Plastic Outer Cable	PASS
3.2	Silver Metal Cable Protection	PASS
3.3	Grey Plastic Inner Cable (bold)	PASS
3.4	Silver Metal Cable Foil Floor (bold)	PASS
3.5	Transparent Plastic Cable Inner Gelatine (bold)	PASS
3.6	Silver Metal Cable Foil floor (thin)	PASS
3.7	Transparent Plastic Cable Inner Gelatine (thin)	PASS
3.8	Grey Plastic Inner Cable	PASS
3.9	White Plastic Inner Cable	PASS
3.10	Red Plastic Inner Cable	PASS
3.11	Silver Metal Wire in Cable	PASS
3.12	Bronze Metal Wire in Cable	PASS

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The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.

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

RAVİYE MUTLU
Customer Services Supervisor

Bora Şirinbilek
Hardline and C&H Testing Services Manager



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Test Item(s):	RESULTS		
	1.1	1.2	1.3
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	ND	ND
Flame Retardants			
Sum of PBBs	ND	NA	NA
Monobromobiphenyl	ND	NA	NA
Dibromobiphenyl	ND	NA	NA
Tribromobiphenyl	ND	NA	NA
Tetrabromobiphenyl	ND	NA	NA
Pentabromobiphenyl	ND	NA	NA
Hexabromobiphenyl	ND	NA	NA
Heptabromobiphenyl	ND	NA	NA
Octabromobiphenyl	ND	NA	NA
Nonabromobiphenyl	ND	NA	NA
Decabromobiphenyl	ND	NA	NA
Sum of PBDEs	ND	NA	NA
Monobromodiphenyl ether	ND	NA	NA
Dibromodiphenyl ether	ND	NA	NA
Tribromodiphenyl ether	ND	NA	NA
Tetrabromodiphenyl ether	ND	NA	NA
Pentabromodiphenyl ether	ND	NA	NA
Hexabromodiphenyl ether	ND	NA	NA
Heptabromodiphenyl ether	ND	NA	NA
Octabromodiphenyl ether	ND	NA	NA
Nonabromodiphenyl ether	ND	NA	NA
Decabromodiphenyl ether	ND	NA	NA
Phthalates	ND	NA	NA
Dibutyl phthalate (DBP)	ND	NA	NA
Butyl benzyl phthalate (BBP)	ND	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	NA
Diisobutyl Phthalates (DIBP)	ND	NA	NA

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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Test Item(s):	RESULTS		
	1.4	1.5	1.6
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	ND	ND	ND
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
Sum of PBDEs	ND	ND	ND
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
Phthalates	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
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Test Item(s):	RESULTS		
	1.7	1.8	1.9
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	NA	ND
Flame Retardants			
Sum of PBBs	ND	ND	NA
Monobromobiphenyl	ND	ND	NA
Dibromobiphenyl	ND	ND	NA
Tribromobiphenyl	ND	ND	NA
Tetrabromobiphenyl	ND	ND	NA
Pentabromobiphenyl	ND	ND	NA
Hexabromobiphenyl	ND	ND	NA
Heptabromobiphenyl	ND	ND	NA
Octabromobiphenyl	ND	ND	NA
Nonabromobiphenyl	ND	ND	NA
Decabromobiphenyl	ND	ND	NA
Sum of PBDEs	ND	ND	NA
Monobromodiphenyl ether	ND	ND	NA
Dibromodiphenyl ether	ND	ND	NA
Tribromodiphenyl ether	ND	ND	NA
Tetrabromodiphenyl ether	ND	ND	NA
Pentabromodiphenyl ether	ND	ND	NA
Hexabromodiphenyl ether	ND	ND	NA
Heptabromodiphenyl ether	ND	ND	NA
Octabromodiphenyl ether	ND	ND	NA
Nonabromodiphenyl ether	ND	ND	NA
Decabromodiphenyl ether	ND	ND	NA
Phthalates	ND	ND	NA
Dibutyl phthalate (DBP)	ND	ND	NA
Butyl benzyl phthalate (BBP)	ND	ND	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	NA
Diisobutyl Phthalates (DIBP)	ND	ND	NA

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
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Test Item(s):	RESULTS
	<u>1.10</u>
Cadmium (Cd)	ND
Lead (Pb)	ND
Mercury (Hg)	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	ND
Flame Retardants	
Sum of PBBs	NA
Monobromobiphenyl	NA
Dibromobiphenyl	NA
Tribromobiphenyl	NA
Tetrabromobiphenyl	NA
Pentabromobiphenyl	NA
Hexabromobiphenyl	NA
Heptabromobiphenyl	NA
Octabromobiphenyl	NA
Nonabromobiphenyl	NA
Decabromobiphenyl	NA
Sum of PBDEs	NA
Monobromodiphenyl ether	NA
Dibromodiphenyl ether	NA
Tribromodiphenyl ether	NA
Tetrabromodiphenyl ether	NA
Pentabromodiphenyl ether	NA
Hexabromodiphenyl ether	NA
Heptabromodiphenyl ether	NA
Octabromodiphenyl ether	NA
Nonabromodiphenyl ether	NA
Decabromodiphenyl ether	NA
Phthalates	NA
Dibutyl phthalate (DBP)	NA
Butyl benzyl phthalate (BBP)	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA
Diisobutyl Phthalates (DIBP)	NA

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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Test Item(s):	RESULTS		
	2.1	2.2	2.3
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	ND
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	ND	NA
Flame Retardants			
Sum of PBBs	ND	NA	ND
Monobromobiphenyl	ND	NA	ND
Dibromobiphenyl	ND	NA	ND
Tribromobiphenyl	ND	NA	ND
Tetrabromobiphenyl	ND	NA	ND
Pentabromobiphenyl	ND	NA	ND
Hexabromobiphenyl	ND	NA	ND
Heptabromobiphenyl	ND	NA	ND
Octabromobiphenyl	ND	NA	ND
Nonabromobiphenyl	ND	NA	ND
Decabromobiphenyl	ND	NA	ND
Sum of PBDEs	ND	NA	ND
Monobromodiphenyl ether	ND	NA	ND
Dibromodiphenyl ether	ND	NA	ND
Tribromodiphenyl ether	ND	NA	ND
Tetrabromodiphenyl ether	ND	NA	ND
Pentabromodiphenyl ether	ND	NA	ND
Hexabromodiphenyl ether	ND	NA	ND
Heptabromodiphenyl ether	ND	NA	ND
Octabromodiphenyl ether	ND	NA	ND
Nonabromodiphenyl ether	ND	NA	ND
Decabromodiphenyl ether	ND	NA	ND
Phthalates	ND	NA	ND
Dibutyl phthalate (DBP)	ND	NA	ND
Butyl benzyl phthalate (BBP)	ND	NA	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	ND
Diisobutyl Phthalates (DIBP)	ND	NA	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
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Test Item(s):	RESULTS		
	2.4	2.5	2.6
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	ND	ND	ND
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
Sum of PBDEs	ND	ND	ND
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
Phthalates	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
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Test Item(s):	RESULTS		
	<u>2.7</u>	<u>2.8</u>	<u>2.9</u>
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	ND	ND	ND
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
Sum of PBDEs	ND	ND	ND
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
Phthalates	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
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Test Item(s):	RESULTS		
	2.10	2.11	2.12
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	ND	ND	ND
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
Sum of PBDEs	ND	ND	ND
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
Phthalates	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
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Test Item(s):	RESULTS		
	2.13	2.14	2.15
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	ND	ND	ND
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
Sum of PBDEs	ND	ND	ND
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
Phthalates	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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Test Item(s):	RESULTS	
	<u>2.16</u>	<u>2.17</u>
Cadmium (Cd)	ND	ND
Lead (Pb)	ND	ND
Mercury (Hg)	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	ND	ND
Flame Retardants		
Sum of PBBs	NA	NA
Monobromobiphenyl	NA	NA
Dibromobiphenyl	NA	NA
Tribromobiphenyl	NA	NA
Tetrabromobiphenyl	NA	NA
Pentabromobiphenyl	NA	NA
Hexabromobiphenyl	NA	NA
Heptabromobiphenyl	NA	NA
Octabromobiphenyl	NA	NA
Nonabromobiphenyl	NA	NA
Decabromobiphenyl	NA	NA
Sum of PBDEs	NA	NA
Monobromodiphenyl ether	NA	NA
Dibromodiphenyl ether	NA	NA
Tribromodiphenyl ether	NA	NA
Tetrabromodiphenyl ether	NA	NA
Pentabromodiphenyl ether	NA	NA
Hexabromodiphenyl ether	NA	NA
Heptabromodiphenyl ether	NA	NA
Octabromodiphenyl ether	NA	NA
Nonabromodiphenyl ether	NA	NA
Decabromodiphenyl ether	NA	NA
Phthalates	NA	NA
Dibutyl phthalate (DBP)	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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Test Item(s):	RESULTS		
	3.1	3.2	3.3
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	ND
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	ND	NA
Flame Retardants			
Sum of PBBs	ND	NA	ND
Monobromobiphenyl	ND	NA	ND
Dibromobiphenyl	ND	NA	ND
Tribromobiphenyl	ND	NA	ND
Tetrabromobiphenyl	ND	NA	ND
Pentabromobiphenyl	ND	NA	ND
Hexabromobiphenyl	ND	NA	ND
Heptabromobiphenyl	ND	NA	ND
Octabromobiphenyl	ND	NA	ND
Nonabromobiphenyl	ND	NA	ND
Decabromobiphenyl	ND	NA	ND
Sum of PBDEs	ND	NA	ND
Monobromodiphenyl ether	ND	NA	ND
Dibromodiphenyl ether	ND	NA	ND
Tribromodiphenyl ether	ND	NA	ND
Tetrabromodiphenyl ether	ND	NA	ND
Pentabromodiphenyl ether	ND	NA	ND
Hexabromodiphenyl ether	ND	NA	ND
Heptabromodiphenyl ether	ND	NA	ND
Octabromodiphenyl ether	ND	NA	ND
Nonabromodiphenyl ether	ND	NA	ND
Decabromodiphenyl ether	ND	NA	ND
Phthalates	ND	NA	ND
Dibutyl phthalate (DBP)	ND	NA	ND
Butyl benzyl phthalate (BBP)	ND	NA	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	ND
Diisobutyl Phthalates (DIBP)	ND	NA	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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Test Item(s):	RESULTS		
	3.4	3.5	3.6
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	ND	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	ND	NA	ND
Flame Retardants			
Sum of PBBs	NA	ND	NA
Monobromobiphenyl	NA	ND	NA
Dibromobiphenyl	NA	ND	NA
Tribromobiphenyl	NA	ND	NA
Tetrabromobiphenyl	NA	ND	NA
Pentabromobiphenyl	NA	ND	NA
Hexabromobiphenyl	NA	ND	NA
Heptabromobiphenyl	NA	ND	NA
Octabromobiphenyl	NA	ND	NA
Nonabromobiphenyl	NA	ND	NA
Decabromobiphenyl	NA	ND	NA
Sum of PBDEs	NA	ND	NA
Monobromodiphenyl ether	NA	ND	NA
Dibromodiphenyl ether	NA	ND	NA
Tribromodiphenyl ether	NA	ND	NA
Tetrabromodiphenyl ether	NA	ND	NA
Pentabromodiphenyl ether	NA	ND	NA
Hexabromodiphenyl ether	NA	ND	NA
Heptabromodiphenyl ether	NA	ND	NA
Octabromodiphenyl ether	NA	ND	NA
Nonabromodiphenyl ether	NA	ND	NA
Decabromodiphenyl ether	NA	ND	NA
Phthalates	NA	ND	NA
Dibutyl phthalate (DBP)	NA	ND	NA
Butyl benzyl phthalate (BBP)	NA	ND	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	ND	NA
Diisobutyl Phthalates (DIBP)	NA	ND	NA

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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	MDL = Method Detection Limit		

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Test Item(s):	RESULTS		
	3.7	3.8	3.9
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	ND	ND	ND
Monobromobiphenyl	ND	ND	ND
Dibromobiphenyl	ND	ND	ND
Tribromobiphenyl	ND	ND	ND
Tetrabromobiphenyl	ND	ND	ND
Pentabromobiphenyl	ND	ND	ND
Hexabromobiphenyl	ND	ND	ND
Heptabromobiphenyl	ND	ND	ND
Octabromobiphenyl	ND	ND	ND
Nonabromobiphenyl	ND	ND	ND
Decabromobiphenyl	ND	ND	ND
Sum of PBDEs	ND	ND	ND
Monobromodiphenyl ether	ND	ND	ND
Dibromodiphenyl ether	ND	ND	ND
Tribromodiphenyl ether	ND	ND	ND
Tetrabromodiphenyl ether	ND	ND	ND
Pentabromodiphenyl ether	ND	ND	ND
Hexabromodiphenyl ether	ND	ND	ND
Heptabromodiphenyl ether	ND	ND	ND
Octabromodiphenyl ether	ND	ND	ND
Nonabromodiphenyl ether	ND	ND	ND
Decabromodiphenyl ether	ND	ND	ND
Phthalates	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	ND
Diisobutyl Phthalates (DIBP)	ND	ND	ND

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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	MDL = Method Detection Limit		

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Test Item(s):	RESULTS		
	3.10	3.11	3.12
Cadmium (Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	ND	ND
Flame Retardants			
Sum of PBBs	ND	NA	NA
Monobromobiphenyl	ND	NA	NA
Dibromobiphenyl	ND	NA	NA
Tribromobiphenyl	ND	NA	NA
Tetrabromobiphenyl	ND	NA	NA
Pentabromobiphenyl	ND	NA	NA
Hexabromobiphenyl	ND	NA	NA
Heptabromobiphenyl	ND	NA	NA
Octabromobiphenyl	ND	NA	NA
Nonabromobiphenyl	ND	NA	NA
Decabromobiphenyl	ND	NA	NA
Sum of PBDEs	ND	NA	NA
Monobromodiphenyl ether	ND	NA	NA
Dibromodiphenyl ether	ND	NA	NA
Tribromodiphenyl ether	ND	NA	NA
Tetrabromodiphenyl ether	ND	NA	NA
Pentabromodiphenyl ether	ND	NA	NA
Hexabromodiphenyl ether	ND	NA	NA
Heptabromodiphenyl ether	ND	NA	NA
Octabromodiphenyl ether	ND	NA	NA
Nonabromodiphenyl ether	ND	NA	NA
Decabromodiphenyl ether	ND	NA	NA
Phthalates	ND	NA	NA
Dibutyl phthalate (DBP)	ND	NA	NA
Butyl benzyl phthalate (BBP)	ND	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	NA
Diisobutyl Phthalates (DIBP)	ND	NA	NA

Remarks:	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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SUBSTANCE	LIMITS	
Cadmium (Cd)Content	0.01 % (100 ppm)	
Lead (Pb) Content	0.1 % (1000 ppm)	
Mercury (Hg) Content	0.1 % (1000 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 $\mu\text{g}/\text{cm}^2$ ≥ 0.10 $\mu\text{g}/\text{cm}^2$ and ≤ 0.13 $\mu\text{g}/\text{cm}^2$ > 0.13 $\mu\text{g}/\text{cm}^2$	Qualitative Result Negative Inconclusive Positive
PBB	0.1 % (1000 ppm)	
PBBDE	0.1 % (1000 ppm)	
Dibutyl Phthalate (DBP)	0.1 % (1000 ppm)	
Benzyl Butyl Phthalate (BBP)	0.1 % (1000 ppm)	
Diethyl Hexyl Phthalate (DEHP)	0.1 % (1000 ppm)	
Diisobutyl Phthalate (DIBP)	0.1 % (1000 ppm)	

Testing Item	Testing Method	MDL
Cadmium (Cd)Content	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-MS/ICP-OES. ¹	2 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013, determination of Lead by ICP-MS/ICP-OES. ¹	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-MS/ICP-OES. ¹	2 ppm
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. ¹	8 ppm
Chromium VI (Cr6+) (For metal)	With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. ¹	0.1 $\mu\text{g}/\text{cm}^2$ with 50 cm^2 (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. ¹	5 ppm
Phthalates	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS. ¹	50 ppm

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Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) On 4 June 2015, [Commission Directive \(EU\) 2015/863](#) was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3) 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.
- (4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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1.1



1.2



1.3



1.4



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1.5



1.6



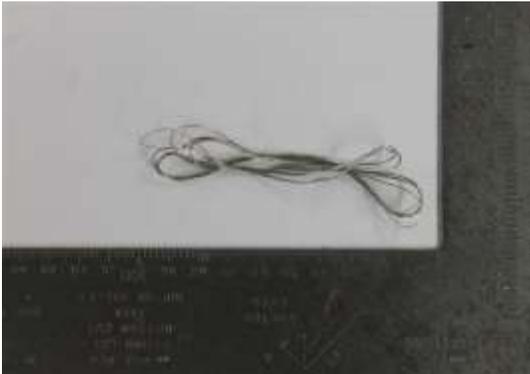
1.7



1.8



1.9



1.10



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2



2.1



2.2



2.3



2.4



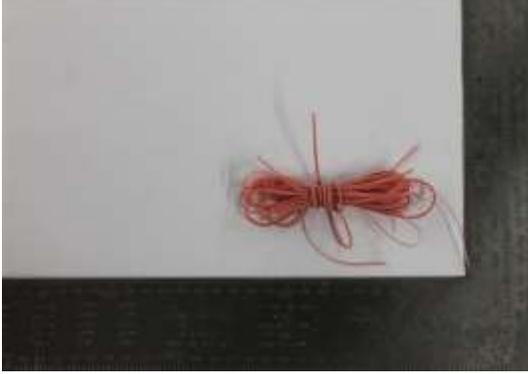
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2.5



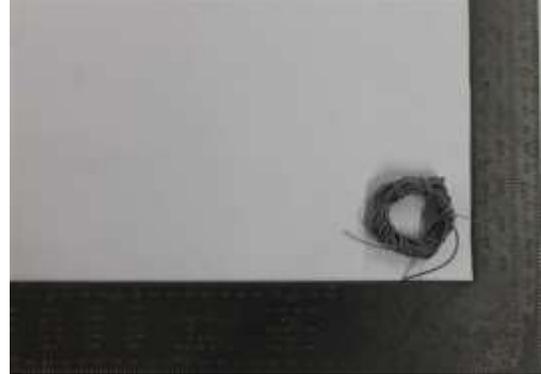
2.6



2.7



2.8



2.9



2.10



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2.11



2.12



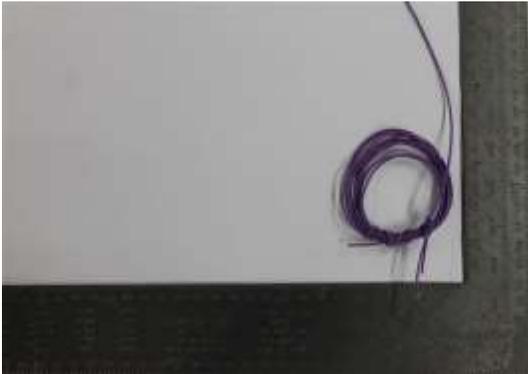
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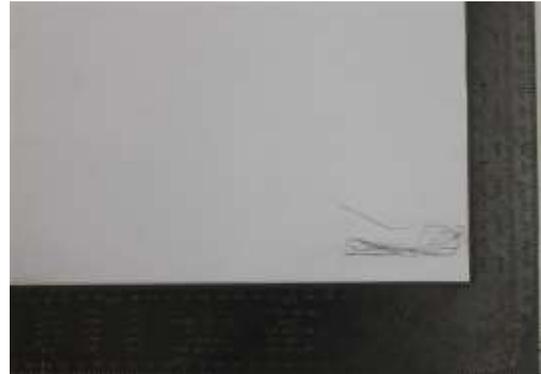
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2.15



2.16



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3**3.1****3.2****3.3****3.4**

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3.5



3.6



3.7



3.8



3.9



3.10



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3.11



3.12



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End of Test Report

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