

**TEST REPORT**

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**REPORT NUMBER :** TURT220136247  
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**Attention :** İlke Sayan ( ilke@leba.com.tr )  
**SAMPLE DESCRIPTION :** One sample of Liquid Sample - D.O.A.  
**DATE IN :** 23 November ,2022 ( 16:06:00)  
**DATE OUT :** 5 December ,2022  
**REQUEST.** Rohs Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

PART	DESCRIPTION	CONCLUSION
Sample 1	Sample	Pass

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**(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321**  
**Electrotechnical Products-Determination of Levels of Six Regulated Substances**

TESTING ITEM	RESULT
	<b>Sample 1</b>
Cadmium (Cd) Content	ND
Chromium VI (Cr+6) Content (ppm) (for non- metal)	ND
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NA
Lead (Pb) Content	ND
Mercury (Hg) Content	ND
Flame Retardants	
<b>Polybrominated Biphenyls (PBB)</b>	ND
Monobromobiphenyl (MonoBB)	ND
Dibromobiphenyl (DiBB)	ND
Tribromobiphenyl (TriBB)	ND
Tetrabromobiphenyl (TetraBB)	ND
Pentabromobiphenyl (PentaBB)	ND
Hexabromobiphenyl (HexaBB)	ND
Heptabromobiphenyl (HeptaBB)	ND
Octabromobiphenyl (OctaBB)	ND
Nonabromobiphenyl (NonaBB)	ND
Decabromobiphenyl (DecaBB)	ND
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	ND
Monobromodiphenyl Ether (MonoBDE)	ND
Dibromodiphenyl Ether (DiBDE)	ND
Tribromodiphenyl Ether (TriBDE)	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND
Pentabromodiphenyl Ether (PentaBDE)	ND
Hexabromodiphenyl Ether (HexaBDE)	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND
Octabromodiphenyl Ether (OctaBDE)	ND
Nonabromodiphenyl Ether (NonaBDE)	ND
Decabromodiphenyl Ether (DecaBDE)	ND
<b>Phthalates</b>	
Dibutyl phthalate (DBP) (84-74-2)	ND
Diethyl Hexyl Phthalate (DEHP) (117-81-7)	ND

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TESTING ITEM	RESULT
	<b>Sample 1</b>
Benzyl butyl phthalate (BBP) (85-68-7)	ND
Diisobutyl Phthalate (DIBP) (84-69-5)	ND

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%, Phthalates: ±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 (µg/cm <sup>2</sup> ) (for metal)	<u>Colorimetric result</u> < 0.10 µg/cm <sup>2</sup> ≥ 0.10 µg/cm <sup>2</sup> and ≤ 0.13 µg/cm <sup>2</sup> > 0.13 µg/cm <sup>2</sup>	<u>Qualitative Result</u> Negative Inconclusive Positive
Lead (Pb) Content	0.1 % (1000 ppm)	
Mercury (Hg) Content	0.1 % (1000 ppm)	
Flame Retardants	0.1 % (1000 ppm)	
Dibutyl Phthalate (DBP)	0.1 % (1000 ppm)	
Diethyl Hexyl Phthalate (DEHP)	0.1 % (1000 ppm)	
Benzyl Butyl Phthalate (BBP)	0.1 % (1000 ppm)	
Diisobutyl Phthalate (DIBP)	0.1 % (1000 ppm)	

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**(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: 10 ppm / Metal: 4 ppm / Ceramic: 5 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	Plastic: 10 ppm / Metal: 4 ppm / Ceramic: 5 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2017,by microwave or acid digestion and determined by ICP-OES	Plastic: 10 ppm / Metal: 10 ppm / Ceramic: 5 ppm
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)
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 ppm with 50 cm2 (In testing solution)
PBBs/PBDEs	With reference to IEC 62321-6:2015,by solvent extraction and determined by GC/MS and HPLC	5 ppm
Phthalates	With reference to IEC 62321-8 (111/321/CD), by solvent extraction and determined by GC-MS.	50 ppm

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