

TEST REPORT

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REPORT NUMBER : TURT240022008
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SAMPLE DESCRIPTION : See attachment
DATE IN : 19 February ,2024 (09:05:00)
DATE OUT : 26 February ,2024
REQUEST. Rohs Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

PART	DESCRIPTION	CONCLUSION
Sample 1	Liquid item (TOTM)	Pass
Sample 2	Liquid item (DOTP)	Pass
Sample 3	Liquid item (DOA)	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		
	Sample 1	Sample 2	Sample 3
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non- metal)	ND	ND	ND
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	NA	NA	NA
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	ND	ND	ND
Monobromobiphenyl (MonoBB)	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	ND	ND	ND
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND
Phthalates			
Dibutyl phthalate (DBP) (84-74-2)	ND	ND	ND
Diethyl Hexyl Phthalate (DEHP) (117-81-7)	137 ppm	ND	ND
Benzyl butyl phthalate (BBP) (85-68-7)	ND	ND	ND
Diisobutyl Phthalate (DIBP) (84-69-5)	ND	ND	ND

Remarks : ppm=Parts per million based on dry weight of sample
µg/cm²=Microgram per square centimetre
mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
ND =Not detected NA =Not applicable NR =Not requested

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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)	<u>Colorimetric result</u> < 0.10 $\mu\text{g}/\text{cm}^2$ \geq 0.10 $\mu\text{g}/\text{cm}^2$ and \leq 0.13 $\mu\text{g}/\text{cm}^2$ > 0.13 $\mu\text{g}/\text{cm}^2$	<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	Uncertainty
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	Metal- Pb&Cd&Cr:±13% Metal-Hg:±12% Plastic:±9% Ceramic/Glass:±10% Carton:±7%
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 62321-4:2013/AMD1:2017,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)	Plastic-PVC ±12% Plastic-PP ±5% Ceramic/Glass ±5% Carton:±11%
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)	±13%
PBBs/PBDEs	With reference to IEC 62321-6:2015,by solvent extraction and determined by GC/MS and HPLC	5 ppm	±15%
Phthalates	With reference to IEC 62321-8 (111/321/CD), by solvent extraction and determined by GC-MS.	50 ppm	±16%

END OF TEST REPORT