

TEST REPORT

Page 1 of 6

REPORT NUMBER : TURT200155710
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Attention : Mustafa Bekçi (mustafa.bekci@alpsan.com)
SAMPLE DESCRIPTION : One sample of Metal item - 1
DATE IN : 23 November ,2020 (15:28:00)
DATE OUT : 27 November ,2020
REQUEST. Rohs Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU
RESULTS: See attachment

PART	DESCRIPTION	CONCLUSION
Sample 1	Sample	Pass

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200155710

TEST REPORT

27 November ,2020

REPORT : TURT200155710

Page 2 of 6

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

Electrotechnical Products-Determination of Levels of Six Regulated Substances

TESTING ITEM	RESULT
	Sample 1
Cadmium (Cd) Content	ND
Chromium VI (Cr+6) Content (ppm) (for non- metal)	NA
Chromium VI (Cr+6) Content ($\mu\text{g}/\text{cm}^2$) (for metal)	ND
Lead (Pb) Content	ND
Mercury (Hg) Content	ND
Flame Retardants	
Polybrominated Biphenyls (PBB)	NA
Monobromobiphenyl (MonoBB)	NA
Dibromobiphenyl (DiBB)	NA
Tribromobiphenyl (TriBB)	NA
Tetrabromobiphenyl (TetraBB)	NA
Pentabromobiphenyl (PentaBB)	NA
Hexabromobiphenyl (HexaBB)	NA
Heptabromobiphenyl (HeptaBB)	NA
Octabromobiphenyl (OctaBB)	NA
Nonabromobiphenyl (NonaBB)	NA
Decabromobiphenyl (DecaBB)	NA
Polybrominated Diphenyl Ethers (PBDE)	NA
Monobromodiphenyl Ether (MonoBDE)	NA
Dibromodiphenyl Ether (DiBDE)	NA
Tribromodiphenyl Ether (TriBDE)	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA
Pentabromodiphenyl Ether (PentaBDE)	NA
Hexabromodiphenyl Ether (HexaBDE)	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA
Octabromodiphenyl Ether (OctaBDE)	NA
Nonabromodiphenyl Ether (NonaBDE)	NA
Decabromodiphenyl Ether (DecaBDE)	NA
Phthalates	

Remarks : ppm=Parts per million based on dry weight of sample
 $\mu\text{g}/\text{cm}^2$ =Microgram per square centimetre
 mg/kg with 50 cm^2 =Milligram per kilogram with 50 square centimetre
 ND =Not detected NA =Not applicable NR =Not requested

TEST REPORT

27 November ,2020

REPORT : TURT200155710

Page 3 of 6

TESTING ITEM	RESULT
	Sample 1
Dibutyl phthalate (DBP) (84-74-2)	NA
Di(2-ethylhexyl) phthalate (DEHP) (117-81-7)	NA
Benzyl butyl phthalate (BBP) (85-68-7)	NA
Diisobutyl Phthalate (DIBP) (84-69-5)	NA

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

TEST REPORT

27 November ,2020

REPORT : TURT200155710

Page 4 of 6

(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>	<u>Qualitative Result</u>
	< 0.10 $\mu\text{g}/\text{cm}^2$	Negative
	$\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$	Inconclusive
	> 0.13 $\mu\text{g}/\text{cm}^2$	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)	

TEST REPORT

27 November ,2020

REPORT : TURT200155710

Page 5 of 6

(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 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2017,by microwave or acid digestion and determined by ICP-OES	Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5 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), 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 cm ² (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

TEST REPORT
REPORT : TURT200155710

27 November , 2020
Page 6 of 6

Sample 1



END OF TEST REPORT