



#### TEST REPORT

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REPORT NUMBER: TURT210006330

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SAMPLE DESCRIPTION : See attachment

DATE IN: 15 January ,2021 ( 14:12:00)

DATE OUT: 26 January,2021

**ORDER NO:** 4700024244

REQUEST. Rohs Directive (EU) 2015/863 amending Annex II to Directive

2011/65/EU

KW

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		CONCLUSION
PART	DESCRIPTION	
Sample 1	Ravatherm Stone Wool - 20 gr	Pass
Sample 2	Ravatherm Stone Wool Black Glass - 20 gr	Pass
Sample 3	Ravatherm Stone Wool - A.F 20 gr	Pass
Sample 4	Ravatherm Ceramic Fiber - 20 gr	Pass
Sample 5	Ravatherm Ceramic Fiber - A.F 20 gr	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/cm²) (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

Remarks : ppm=Parts per million based on dry weight of sample  $\mu g/cm^2 = Microgram$  per square centimetre mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre ND =Not detected NA =Not applicable NR =Not requested Estimated Total Uncertanity = ((Heavy Metal:  $\pm 7\%$ , PBB/PBDE:  $\pm 6\%$ , Phthalates:  $\pm 6\%$ ))





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TESTING ITEM	RESULT		
	Sample 1	Sample 2	Sample 3
Phthalates			
Dibutyl phthalate (DBP) (84-74-2)	ND	ND	ND
Di(2-ethylhexyl) phthalate (DEHP)(117-81-7)	ND	ND	ND
Benzyl butyl phthalate (BBP) (85-68-7)	ND	ND	ND
Diisobutyl Phthalate (DIBP) (84-69-5)	ND	ND	ND

TESTING ITEM	RESULT	
	Sample 4	Sample 5
Cadmium (Cd) Content	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non- metal)	ND	ND
Chromium VI (Cr+6) Content (µg/cm²) (for metal)	NA	NA
Lead (Pb) Content	ND	ND
Mercury (Hg) Content	ND	ND
Flame Retardants		
Polybrominated Biphenyls (PBB)	ND	ND
Monobromobiphenyl (MonoBB)	ND	ND
Dibromobiphenyl (DiBB)	ND	ND
Tribromobiphenyl (TriBB)	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND
Polybrominated Diphenyl Ethers (PBDE)	ND	ND
Monobromodiphenyl Ether (MonoBDE)	ND	ND

Remarks : ppm=Parts per million based on dry weight of sample  $\mu g/cm^2 = Microgram$  per square centimetre mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre ND =Not detected NA =Not applicable NR =Not requested Estimated Total Uncertanity = ((Heavy Metal:  $\pm 7\%$ , PBB/PBDE:  $\pm 6\%$ , Phthalates:  $\pm 6\%$ ))





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TESTING ITEM	RES	RESULT	
	Sample 4	Sample 5	
Dibromodiphenyl Ether (DiBDE)	ND	ND	
Tribromodiphenyl Ether (TriBDE)	ND	ND	
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	
Octabromodiphenyl Ether (OctaBDE)	ND	ND	
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	
Decabromodiphenyl Ether (DecaBDE)	ND	ND	
Phthalates			
Dibutyl phthalate (DBP) (84-74-2)	ND	ND	
Di(2-ethylhexyl) phthalate (DEHP)(117-81-7)	ND	ND	
Benzyl butyl phthalate (BBP) (85-68-7)	ND	ND	
Diisobutyl Phthalate (DIBP)(84-69-5)	ND	ND	

Remarks : ppm=Parts per million based on dry weight of sample  $\mu g/cm^2 = Microgram$  per square centimetre mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre ND =Not detected NA =Not applicable NR =Not requested Estimated Total Uncertanity = ((Heavy Metal:  $\pm 7\%$ , PBB/PBDE:  $\pm 6\%$ , Phthalates:  $\pm 6\%$ ))





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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	<u>Colorimetric</u> <u>result</u>	<u>Qualitative</u> <u>Result</u>	
(Cr+6) Content (µg/cm²) (for metal)	<pre>&lt; 0.10 <math>\mu g/cm^2</math></pre>	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 : 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 <sup>2</sup> (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





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Sample 1



Sample 3



Sample 5



Sample 2



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Sample 4



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