

TEST REPORT

TEST REPORT NUMBER : TURT180082422-SHUTTLE

DATE: 02 May, 2018

APPLICANT: Bilgi Dağ. Kitap Kırt. ve Büro Malz. Tic. Ltd. Şti.

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SAMPLE DESCRIPTION See attachment

DATE IN : 30 /April / 2018 (10:07)

DATE OUT : 02 /May /2018

REQUEST : RoHS Test was performed according to 2011/65/EU Directive.

RESULTS : SEE ATTACHMENT

CONCLUSION : SEE ATTACHMENT

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Volkan ALBAYRAK
Customer Care Executive



Zeynep AKIN
Chemical Laboratory Manager

PARTS	DESCRIPTION	CONCLUSION
	Sample	
1	A4 FILE BAG	
1.1	A4 FILE	PASS
1.2	WHITE BUTTON	PASS

(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT	
	Sample	
	1.1	1.2
Cadmium (Cd) Content	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	ND	ND
Chromium VI (Cr+6) Content (µg/cm ²) (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
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

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

Estimated Total Uncertainty= ((Heavy Metal: ±7% , PBB/PBDE: ±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 (µg/cm ²) for metal)	Colorimetric result < 0.10 µg/cm ² ≥ 0.10 µg/cm ² and ≤ 0.13 µg/cm ² > 0.13 µg/cm ²
	Qualitative Result Negative Inconclusive Positive
Lead (Pb) Content	0.1 % (1000 ppm)
Mercury (Hg) Content	0.1 % (1000 ppm)
Flame Retardants	0.1 % (1000 ppm)

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



Part 1.1



Part 1.2



END OF TEST REPORT