AB-0716-T
TURT210168428
01-22

TEST REPORT

TEST REPORT NUMBER : TURT210168428 DATE: 11 January, 2022

APPLICANT: **Tork Bağlantı Elemanları San.Tic.Ltd.Şti.**

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Tel: 444 22 08

Attention: **Mert Gülcan (mert.gulcan@torkclamps.com)**

SAMPLE DESCRIPTION

Sample 1 : One sample of Plastic White Cable Ties
Sample 2 : One sample of Plastic Black Cable Ties
Sample 3 : One sample of Plastic White and Yellow İtems

DATE IN : **30 December, 2021 (16:27)**

DATE OUT : **11 January, 2022**

REQUEST : Rohs Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

CONCLUSION : SEE ATTACHMENT

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Ezgi Aleyna Arı
Senior Customer Care Executive

Zeynep Akın
Chemical Laboratory Manager

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PART NO	DESCRIPTION	CONCLUSION
1	PLASTIC WHITE CABLE TIES	PASS
2	PLASTIC BLACK CABLE TIES	PASS
3	PLASTIC WHITE AND YELLOW ITEMS	
3.1	WHITE PLASTIC PART	PASS
3.2	YELLOW PAPER	PASS
3.3	WHITE FOAM WITH GLUE	PASS

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REPORT :TURT210168428 11 January, 2022

(A)TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	**RESULT**		
	Part		
	1	**2**	**3.1**
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
Phthalates			
Dibutyl Phthalate (DBP)	ND	ND	ND
Diethyl Hexyl Phthalate (DEHP)	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	ND	ND	ND
Diisobutyl Phthalate (DIBP)	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

Estimated Total Uncertanity = (Heavy Metal: ±7% , PBB/PBDE: ±6%, Phthalates: ±6%)

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(A)TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT	
	Part	
	3.2	3.3
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
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)	ND	ND
Diethyl Hexyl Phthalate (DEHP)	ND	ND
Benzyl Butyl Phthalate (BBP)	ND	ND
Diisobutyl Phthalate (DIBP)	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 Uncertanity = (Heavy Metal: ±7% , PBB/PBDE: ±6%, Phthalates: ±6%)

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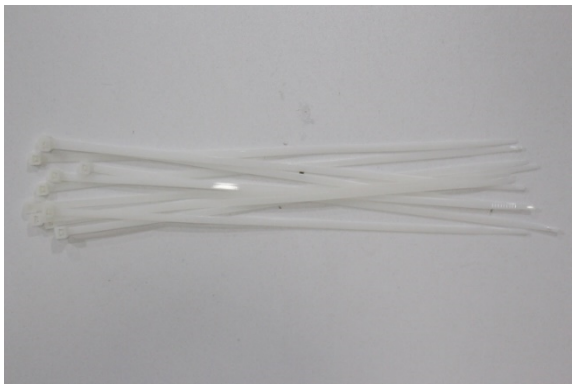
B) REQUIREMENT:

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/cm²)for metal)	Colorimetric result < 0.10 µg/cm² ≥ 0.10 µg/cm² and ≤ 0.13 µg/cm² > 0.13 µg/cm²	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)	
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)	

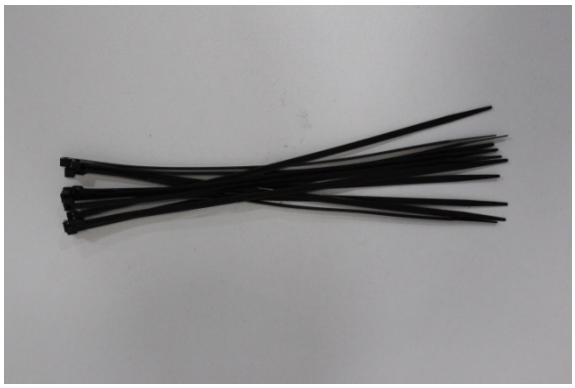
(C) TEST METHOD :

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

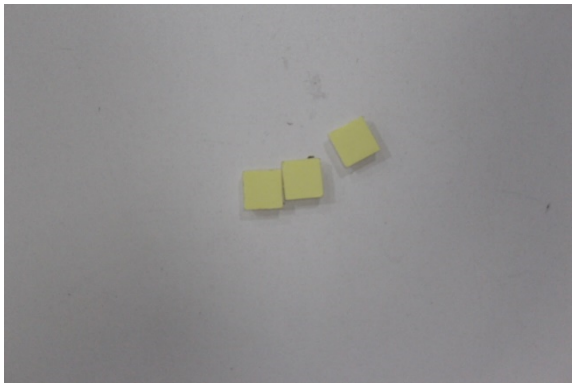
Part 1



Part 2



Part 3



END OF TEST REPORT

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