



## TEST REPORT



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**REPORT NUMBER :** TURR170056012  
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**Attention :** Nihan Toygar ( ntoygar@farper.com.tr )  
**SAMPLE DESCRIPTION :** See attachment  
**DATE IN :** 27 March ,2017 ( 13:59:00)  
**DATE OUT :** 27 March ,2017  
**COUNTRY OF ORIGIN :** TURKEY  
**REQUEST.** RoHS Test was performed according to 2011/65/EU Directive.  
**RESULTS:** See attachment

Volkan ALBAYRAK  
Customer Care Executive

Zeynep AKIN  
Chemical Laboratory Manager

**Intertek Test Hizmetleri A.S.**  
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170056012

		CONCLUSION
PART	DESCRIPTION	
Sample 1	Bixyphos 120 - Liquid item	Pass
Sample 2	Bixy teak 140 - Liquid item	Pass
Sample 3	Bixy wash 210 - Liquid item	Pass
Sample 4	Bixy fabric 230 - Liquid item	Pass
Sample 5	Bixy bilge 220 - Liquid item	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
	Part	Part	Part
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 <sup>2</sup> ) (for metal)	NA	NA	NA
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
<b>Polybrominated Biphenyls (PBB)</b>	NA	NA	NA
Monobromobiphenyl (MonoBB)	NA	NA	NA
Dibromobiphenyl (DiBB)	NA	NA	NA
Tribromobiphenyl (TriBB)	NA	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	NA	NA	NA
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NA
Dibromodiphenyl Ether (DiBDE)	NA	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
 ND =Not detected NA =Not applicable NR =Not requested

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TESTING ITEM	RESULT	
	Sample 4	Sample 5
	Part	Part
Cadmium (Cd) Content	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non- metal)	ND	ND
Chromium VI (Cr+6) Content (µg/cm <sup>2</sup> ) (for metal)	NA	NA
Lead (Pb) Content	ND	ND
Mercury (Hg) Content	ND	ND
Flame Retardants		
<b>Polybrominated Biphenyls (PBB)</b>	NA	NA
Monobromobiphenyl (MonoBB)	NA	NA
Dibromobiphenyl (DiBB)	NA	NA
Tribromobiphenyl (TriBB)	NA	NA
Tetrabromobiphenyl (TetraBB)	NA	NA
Pentabromobiphenyl (PentaBB)	NA	NA
Hexabromobiphenyl (HexaBB)	NA	NA
Heptabromobiphenyl (HeptaBB)	NA	NA
Octabromobiphenyl (OctaBB)	NA	NA
Nonabromobiphenyl (NonaBB)	NA	NA
Decabromobiphenyl (DecaBB)	NA	NA
<b>Polybrominated Diphenyl Ethers (PBDE)</b>	NA	NA
Monobromodiphenyl Ether (MonoBDE)	NA	NA
Dibromodiphenyl Ether (DiBDE)	NA	NA
Tribromodiphenyl Ether (TriBDE)	NA	NA
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA
Pentabromodiphenyl Ether (PentaBDE)	NA	NA
Hexabromodiphenyl Ether (HexaBDE)	NA	NA
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA
Octabromodiphenyl Ether (OctaBDE)	NA	NA
Nonabromodiphenyl Ether (NonaBDE)	NA	NA
Decabromodiphenyl Ether (DecaBDE)	NA	NA

Remarks : ppm=Parts per million based on dry weight of sample  
 µg/cm<sup>2</sup>=Microgram per square centimetre  
 mg/kg with 50 cm<sup>2</sup>=Milligram per kilogram with 50 square centimetre  
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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/cm <sup>2</sup> ) (for metal)	<u>Colorimetric result</u> < 0.10 µg/cm <sup>2</sup> ≥ 0.10 µg/cm <sup>2</sup> and ≤ 0.13 µg/cm <sup>2</sup> > 0.13 µg/cm <sup>2</sup>	<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)	

## (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	2 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2013,by microwave or acid digestion and determined by ICP-OES	2 ppm
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321:2008,by alkaline digestion and determined by UV-VIS spectrophotometer	1 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

#### END OF TEST REPORT ###