



AB-0716-T

TURT200077213

07-20

TEST REPORT

Page 1 of 6

TEST REPORT NUMBER: TURT200077213 DATE: 09 July, 2020

APPLICANT: AFS Boru Sanayi A.Ş.

ADDRESS: İvedik O.S.B. 1468 Cd. No:153 Yenimahalle / Ankara

Tel: 0312 395 48 60 Fax: 0312 395 48 68 Attention: irem Senel (lab@afs.com.tr)

SAMPLE DESCRIPTION SEE ATTACHMENT

DATE IN : 19 June, 2020 (10:38)

DATE OUT : 09 July, 2020

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

2011/65/EU

RESULTS : SEE ATTACHMENT

CONCLUSION : SEE ATTACHMENT

REFERENCE : VINYLAFS , ISOAFS-VINYL

This report (including any enclosures and attachments) are prepared for the exclusive use of the Customer(s) named in the report and solely for the purpose for which it is provided and on the basis of instructions and information and/or materials supplied by Intertek's Customer. The test results relate only to the specific items tested and are not intended to be a recommendation for any particular course of action. Customer is responsible for acting as it sees fit on the basis of such results. Unless Intertek provide express prior written consent, no part of this report should be reproduced, distributed or communicated to any third party, nor could it be used for PR activities. Intertek do not accept any liability if this report is used for an alternative purpose from which it is intended, nor do Intertek owe any duty of care to any third party in respect of this report. Except where explicitly agreed in writing, all work and services performed is governed by Intertek Standard Terms and Conditions of Service which is available on request or can be obtained at http://www.intertek.com/terms. Testing reports without signature are not valid. The sample has been provided by the customer and the results apply to the sample as received. Sample information is supplied by the customer. Unless otherwise requested, this laboratory applies shared risk decision rule. Tests marked (*) in this test report are not included in the TÜRKAK accreditation schedule for this laboratory.

Kübra AKGÜN
Customer Care Executive

Zeynep Akın Chemical Laboratory Manager





Page 2 of 6

REPORT :TURT200077213 09 July, 2020

SAMPLE	DESCRIPTION	CONCLUSION
1	YELLOW GLASS WOOL	PASS
2	60μ GREY PVC FILM INNER PIPE	
2.1	COPPER WIRE	PASS
2.2	GREY PLASTIC PART	PASS
3	50μ GREY PE FOIL	PASS





Page 3 of 6

REPORT :TURT200077213 09 July, 2020

(A)TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT Sample		
	1	2.1	2.2
Cadmium (Cd) Content	ND	ND	ND
Chromium VI (Cr+6) Content (ppm) (for non metal)	ND	NA	ND
Chromium VI (Cr+6) Content (µg/cm²) (for metal)	NA	ND	NA
Lead (Pb) Content	ND	ND	ND
Mercury (Hg) Content	ND	ND	ND
Flame Retardants			
Polybrominated Biphenyls (PBB)	ND	NA	ND
Monobromobiphenyl (MonoBB)	ND	NA	ND
Dibromobiphenyl (DiBB)	ND	NA	ND
Tribromobiphenyl (TriBB)	ND	NA	ND
Tetrabromobiphenyl (TetraBB)	ND	NA	ND
Pentabromobiphenyl (PentaBB)	ND	NA	ND
Hexabromobiphenyl (HexaBB)	ND	NA	ND
Heptabromobiphenyl (HeptaBB)	ND	NA	ND
Octabromobiphenyl (OctaBB)	ND	NA	ND
Nonabromobiphenyl (NonaBB)	ND	NA	ND
Decabromobiphenyl (DecaBB)	ND	NA	ND
Polybrominated Diphenyl Ethers (PBDE)	ND	NA	ND
Monobromodiphenyl Ether (MonoBDE)	ND	NA	ND
Dibromodiphenyl Ether (DiBDE)	ND	NA	ND
Tribromodiphenyl Ether (TriBDE)	ND	NA	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	NA	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	NA	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	NA	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	NA	ND
Octabromodiphenyl Ether (OctaBDE)	ND	NA	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	NA	ND
Decabromodiphenyl Ether (DecaBDE)	ND	NA	ND
Phthalates			
Dibutyl Phthalate (DBP)	ND	NA	ND
Diethyl Hexyl Phthalate (DEHP)	ND	NA	ND
Benzyl Butyl Phthalate (BBP)	ND	NA	ND
Diisobutyl Phthalate (DIBP)	ND	NA	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





Page 4 of 6

REPORT :TURT200077213 09 July, 2020

(A)TEST RESULT SUMMARY ACCORDING TO IEC 62321

TESTING ITEM	RESULT	
	Sample	
	3	
Cadmium (Cd) Content	ND	
Chromium VI (Cr+6) Content (ppm) (for non metal)	ND	
Chromium VI (Cr+6) Content (µg/cm²) (for metal)	NA	
Lead (Pb) Content	ND	
Mercury (Hg) Content	ND	
Flame Retardants		
Polybrominated Biphenyls (PBB)	ND	
Monobromobiphenyl (MonoBB)	ND	
Dibromobiphenyl (DiBB)	ND	
Tribromobiphenyl (TriBB)	ND	
Tetrabromobiphenyl (TetraBB)	ND	
Pentabromobiphenyl (PentaBB)	ND	
Hexabromobiphenyl (HexaBB)	ND	
Heptabromobiphenyl (HeptaBB)	ND	
Octabromobiphenyl (OctaBB)	ND	
Nonabromobiphenyl (NonaBB)	ND	
Decabromobiphenyl (DecaBB)	ND	
Polybrominated Diphenyl Ethers (PBDE)	ND	
Monobromodiphenyl Ether (MonoBDE)	ND	
Dibromodiphenyl Ether (DiBDE)	ND	
Tribromodiphenyl Ether (TriBDE)	ND	
Tetrabromodiphenyl Ether (TetraBDE)	ND	
Pentabromodiphenyl Ether (PentaBDE)	ND	
Hexabromodiphenyl Ether (HexaBDE)	ND	
Heptabromodiphenyl Ether (HeptaBDE)	ND	
Octabromodiphenyl Ether (OctaBDE)	ND	
Nonabromodiphenyl Ether (NonaBDE)	ND	
Decabromodiphenyl Ether (DecaBDE)	ND	
Phthalates		
Dibutyl Phthalate (DBP)	ND	
Diethyl Hexyl Phthalate (DEHP)	ND	
Benzyl Butyl Phthalate (BBP)	ND	
Diisobutyl Phthalate (DIBP)	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



REPORT :TURT200077213



Page 5 of 6

09 July, 2020

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/cm ² ≥ 0.10 µg/cm ² and ≤ 0.13 µg/cm ² > 0.13 µg/cm ²	Qualitative Result Negative Inconclusiv e 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 : 2.5 ppm, Metal : 5 ppm, Seramic : 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, Seramic : 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, Seramic : 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), Seramic : 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



REPORT :TURT200077213



Page 6 of 6

09 July, 2020

SAMPLE PHOTO

Sample 1



Sample 2



Sample 3



##END OF TEST REPORT ##