

Test Report

No. 4281423-01

Date : 18/SEP/2017

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TMPFILTERS
GEORGE TSAMOURIS
23rd km Thessaloniki-Vasilika
57006 Vasilika
Thessaloniki
GREECE



The following samples were submitted and identified by/on behalf of the client as

SGS Job file : 4281423
Order date : 01/SEP/2017, by SGS Greece SA
Order number : -
Sample receiving Date : 04/SEP/2017
Testing period : 04/SEP/2017 – 18/SEP/2017

Sample No	Sample designation
170951665	ACTIVATED CARBON FILTERS FOR COOKER HOODS
Subsample No	Subsample designation
170969391	Activated carbon granulate
170969392	Black plastic, case
170969393	Fabric, black

Test requested : In accordance with the RoHS Directive 2011/65/EU and subsequent amendments
Test Method(s) : (1) Determination of Cadmium by ICP-OES, acc. IEC 62321-5:2013
(2) Determination of Lead by ICP-OES, acc. IEC 62321-5:2013
(3) Determination of Mercury by CV-AAS, acc. IEC 62321-4:2013
(4) Determination of Chromium by ICP-OES, acc. IEC 62321-5:2013
(5) Determination of Chromium (VI) acc. IEC 62321:
A) (metal samples) Determination after extraction with hot water and derivatisation with 1,5-diphenyl-carbazide based on IEC 62321-7-1:2015 (metal samples), ion chromatography
B) (non-metallic samples) Determination after alkaline extraction and derivatisation with 1,5-diphenyl-carbazide based on IEC 62321, Ed1, 2008, C5 (polymer and electronic samples), ion chromatography
Remark: Due to its highly reactive nature the concentration of Cr(VI) in a corrosion-protection changes drastically with time and storage conditions. The results obtained by IEC 62321-7-1:2015 can therefore only give an indication of the presence/absence of Cr(VI) within the limitations of the method at the time of testing.
(6) Determination of PBB/PBDE by GC/MS, acc. IEC 62321-6:2015
Remark: Please note that acc. to IEC the testing of metals for PBB/PBDE is gratuitous

Test Result(s) : Please refer to next page(s)

Conclusion : Based on the performed tests on submitted sample(s), the test results of Lead, Mercury, Cadmium, hexavalent Chromium, Polybrominated Biphenyls(PBB) and Polybrominated Diphenyl Ethers (PBDE) **comply with the limits as set by RoHS Directive 2011/65/EU, Annex 2 and subsequent amendments**

SGS INSTITUT FRESENIUS GmbH

i.V.

Wera Leonhard / hi
Projektleiterin / Project Manager

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i.A.

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Die Prüfergebnisse beziehen sich auf die untersuchten Proben. Die Veröffentlichung und Vervielfältigung unserer Prüfberichte und Gutachten zu Werbezwecken sowie deren auszugsweise Verwendung in sonstigen Fällen bedürfen unserer schriftlichen Genehmigung. Alle Dienstleistungen werden auf Grundlage der anwendbaren Allgemeinen Geschäftsbedingungen der SGS, die auf Anfrage zur Verfügung gestellt werden, erbracht.

Geschäftsführer: Stefan Stenhardt, Aufsichtsratsvorsitzender: Dirk Hellmann, Sitz der Gesellschaft: Taunusstein, HRB 21543 Amtsgericht Wiesbaden

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**Test results by
chemical method
(Unit: mg/kg)**

Sample No.		170969391	170969392	170969393		
Test Item(s):	Method (refer to)				RL	RoHS Limit
Cadmium(Cd)	(1)	n.d.	n.d.	n.d.	1	100
Lead (Pb)	(2)	n.d.	n.d.	n.d.	10	1000
Mercury (Hg)	(3)	n.d.	n.d.	n.d.	0,5	1000
Chromium, hexavalent (Cr(VI))	(5 B)	n.d.	n.d.	n.d.	1	1000
Sum of PBDEs	(6)	-	-	-	-	1000 (Sum of polybrominated diphenyl ether)
Monobromodiphenyl ether		n.d.	n.d.	n.d.	50	
Dibromodiphenyl ether		n.d.	n.d.	n.d.	50	
Tribromodiphenyl ether		n.d.	n.d.	n.d.	50	
Tetrabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Pentabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Hexabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Heptabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Octabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Nonabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Decabromodiphenyl ether		n.d.	n.d.	n.d.	50	
Sum of PBBs		-	-	-	-	1000 (Sum of polybrominated biphenyls)
Monobromobiphenyl		n.d.	n.d.	n.d.	50	
Dibromobiphenyl		n.d.	n.d.	n.d.	50	
Tribromobiphenyl		n.d.	n.d.	n.d.	50	
Tetrabromobiphenyl		n.d.	n.d.	n.d.	50	
Hexabromobiphenyl		n.d.	n.d.	n.d.	50	
Pentabromobiphenyl		n.d.	n.d.	n.d.	50	
Heptabromobiphenyl		n.d.	n.d.	n.d.	50	
Octabromobiphenyl		n.d.	n.d.	n.d.	50	
Nonabromobiphenyl		n.d.	n.d.	n.d.	50	
Decabromobiphenyl		n.d.	n.d.	n.d.	50	

Note : mg/kg = ppm

n.d.= not Detected

RL = Report Limit

n.a.= not analyzed

**= elevated reporting limit due to matrix interferences

Test Report

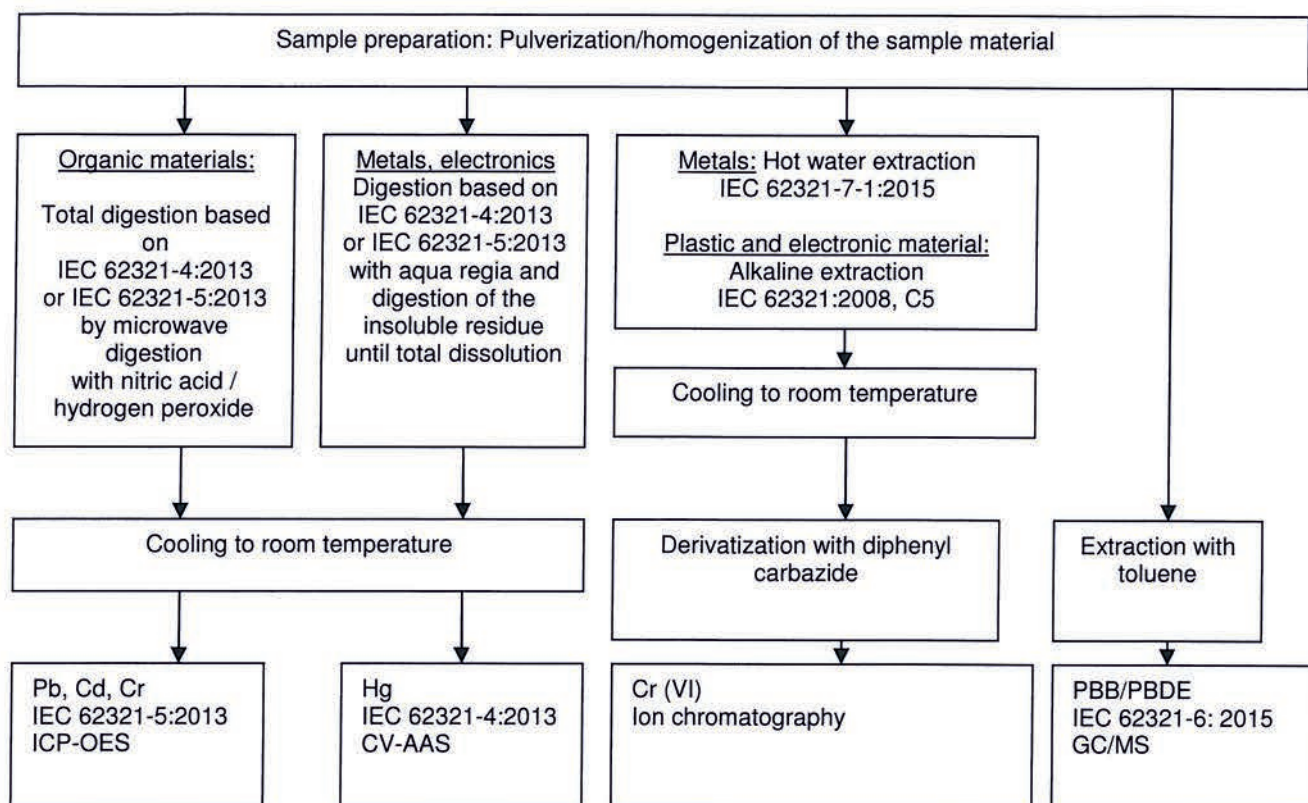
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Flow Chart for the working flow of the performed analysis



End of Report