

Test Report

No. SHAEC1902706801

Date: 26 Feb 2019

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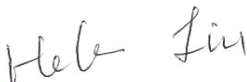
HUADING GROUP CO.,LIMITED

UNIT D, WORLD TRADE CENTRE, NO.122 SHUGUANG ROAD, HANGZHOU CITY, ZHEJIANG PROVINCE,
THE PEOPLE'S REPUBLIC OF CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PRINTED CIRCUIT
BOARDS

SGS Job No. : SP19-004033 - SH
Model No. : PCB
Material No. : PCB
Lot No. : PCB
Date of Sample Received : 20 Feb 2019
Testing Period : 20 Feb 2019 - 26 Feb 2019
Test Requested : Persistent organic pollutants (POP) screening against:
-Selected substances in Annex I of Commission Regulation (EC)No 850/2004 on
POP and its amendment Commission Regulation (EU)No 757/2010,(EU)No
519/2012, (EU)No 2030/2015 and (EU)No 293/2016.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Helen Liu
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA19-027068.001	Green PCB

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Persistent organic pollutants (POP)

Test Method : SGS In-House method , analysis was performed by GC-MS,GC-ECD, HPLC-DAD-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Polychlorinated biphenyls (PCB)	1336-36-3 and others	★	mg/kg	5	ND
Polychlorinated naphthalenes (PCN)	-	★	mg/kg	5	ND
Hexachlorobutadiene	87-68-3	★	mg/kg	5	ND
Pentachlorobenzene	608-93-5	★	mg/kg	5	ND
Hexachlorobenzene	118-74-1	★	mg/kg	5	ND
Hexabromobiphenyl	36355-01-8	★	mg/kg	5	ND
Tetrabromodiphenyl ether	-	10	mg/kg	5	ND
Pentabromodiphenyl ether	-	10	mg/kg	5	ND
Hexabromodiphenyl ether	-	10	mg/kg	5	ND
Heptabromodiphenyl ether	-	10	mg/kg	5	ND
Alkanes, C10-13, chloro(short chain-chlorinated paraffins) (SCCPs)	85535-84-8	0.15	%	0.005	ND
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	×	100	mg/kg	10	ND

Notes :

1. ★=banned
2. Substances in Annex I of Commission Regulation (EC) No 850/2004 on persistent organic pollutants (POP) and its amendment Commission Regulation (EU) No 757/2010,(EU) No 519/2012, (EU) No 2030/2015 and (EU) No 293/2016 are prohibited in preparations and constituents of articles unless otherwise specified.
3. Exemptions: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether and heptabromodiphenyl ether are ≤ 10 mg/kg for articles and preparations, < 0.1% (w/w) for articles and



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preparations produced partially or fully from recycled materials or materials from waste prepared for re-use.

4. Exemption: Tetrabromodiphenyl ether, pentabromodiphenyl ether, hexabromodiphenyl ether and heptabromodiphenyl ether in electrical and electronic equipment within the scope of Directive 2002/95/EC are exempted.

5. Exemption: Alkanes C10-13, chloro (short chain-chlorinated paraffins) (SCCPs) < 1.0% in preparation.

6. The chemical analysis of substances is performed by means of currently available analytical techniques against substances laid down in Test Requested.

7. Exemptions: No more than 100 mg/kg as an unintentional trace contaminant in substances, mixtures, articles or flame-retarded parts of articles. This restriction is subject to review by the Commission by 22 March, 2019.

Production of HBCDD for the manufacture of expanded polystyrene articles subject to authorisation under REACH. This is allowed until 26 November, 2019.

Use of expanded polystyrene and extruded polystyrene in buildings with certain conditions.

8. ✕: 25637-99-4 & 3194-55-6 & 134237-50-6 & 134237-51-7 & 134237-52-8

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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