

### **Test Report**

No.: KE/2017/C0120 Date: 2017/12/11 Page: 1 of 8

ROGERS CORPORATION 171 WEST SAINT CHARLES ROAD, CAROL STREAM, ILLINOIS 60188 USA

### The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description SILICONE BASE MATERIAL

Style/Item No. 7329 GRAY 0.063"

Color **GRAY** 

Material Component SILICONE FOAM

Country of Origin USA Country of Destination **TAIWAN** 17135928001 Lot No. Sample Receiving Date 2017/12/05

**Testing Period** 2017/12/05 TO 2017/12/11 Sample Submitted By ROGERS CORPORATION

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

Ray Chang Ph.D. Signed for and on **SGS Taiwan Limited** 

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### Test Result(s)

PART NAME NO.1 : GRAY FOAM

Test Item (s):	Unit	Method	MDL	Result
. ,				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Land (Dh)		With reference to IEC 62321-5: 2013	2	
Lead (Pb)	mg/kg	and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321-7-2:2017 and performed by UV-VIS.	8	n.d.
Sum of PBBs	mg/kg		_	n.d.
Monobromobiphenyl	mg/kg		5	n.d.
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 and performed by GC/MS.	5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg		5	n.d.
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg		5	n.d.
Hexabromodiphenyl ether	mg/kg		5	n.d.
Heptabromodiphenyl ether	mg/kg		5	n.d.
Octabromodiphenyl ether	mg/kg		5	n.d.
Nonabromodiphenyl ether	mg/kg		5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
DIBP (Di-isobutyl phthalate) (CAS No.:	mg/kg	With reference to IEC 62321-8:2017.	50	n.d.
84-69-5)		Analysis was performed by GC/MS.		
DBP (Dibutyl phthalate) (CAS No.: 84-	mg/kg	With reference to IEC 62321-8:2017.	50	n.d.
74-2)		Analysis was performed by GC/MS.		
BBP (Butyl Benzyl phthalate) (CAS	mg/kg	With reference to IEC 62321-8:2017.	50	n.d.
No.: 85-68-7)		Analysis was performed by GC/MS.		
DEHP (Di- (2-ethylhexyl) phthalate)	mg/kg	With reference to IEC 62321-8:2017.	50	n.d.
(CAS No.: 117-81-7)		Analysis was performed by GC/MS.		
Halogen				
Halogen-Fluorine (F) (CAS No.:	mg/kg	With reference to BS EN 14582:2016.	50	n.d.
14762-94-8)		Analysis was performed by IC.		
Halogen-Chlorine (CI) (CAS No.:	mg/kg	With reference to BS EN 14582:2016.	50	817
22537-15-1)		Analysis was performed by IC.		
Halogen-Bromine (Br) (CAS No.:	mg/kg	With reference to BS EN 14582:2016.	50	n.d.
10097-32-2)		Analysis was performed by IC.		
Halogen-Iodine (I) (CAS No.: 14362-	mg/kg	With reference to BS EN 14582:2016.	50	n.d.
44-8)		Analysis was performed by IC.		

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

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### **Test Report**

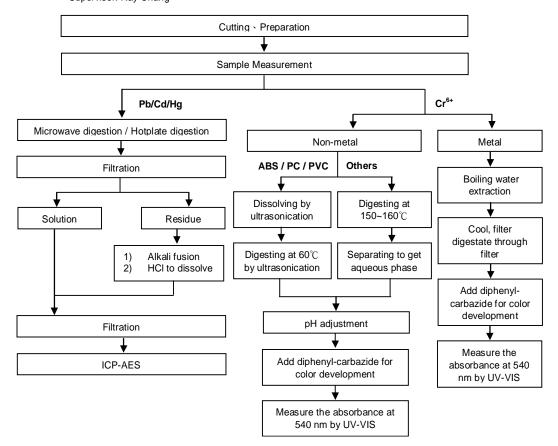
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### **Analytical flow chart of Heavy Metal**

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)

Technician: Jony Liu Supervisor: Ray Chang



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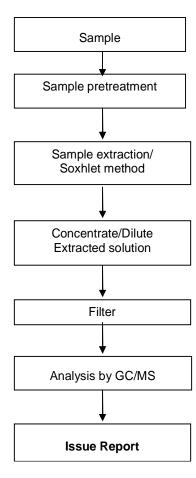
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### **PBB/PBDE** analytical FLOW CHART

- 1) Name of the person who made measurement: Dorothy Chen
- 2) Name of the person in charge of measurement: Ray Chang



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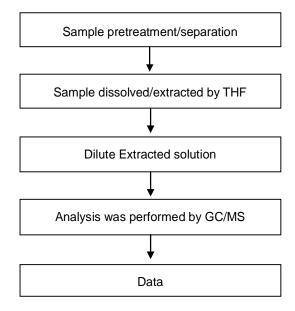
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#### Analytical flow chart of phthalate content

- Name of the person who made measurement: Dorothy Chen
- Name of the person in charge of measurement: Ray Chang

[Test method: IEC 62321-8]



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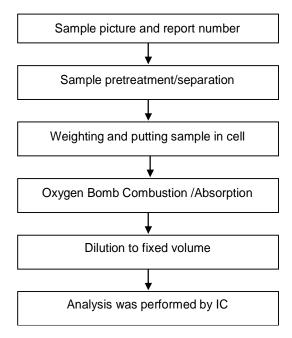
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Jean Hung
- 2) Name of the person in charge of measurement: Ray Chang



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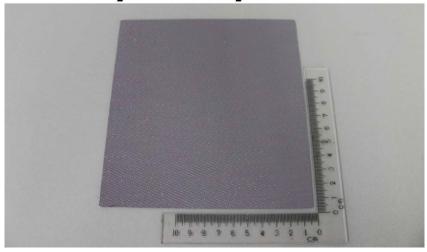
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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