

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 : BF-1005 BLACK
Material Component : SILICONE BASE MATERIAL
Color : BLACK
Sample Receiving Date : 2011/12/09
Testing Period : 2011/12/09 TO 2011/12/14
Sample Submitted By : ROGERS CORPORATION

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

Ray Chang

Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited



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Test Result(s)

PART NAME NO.1 : BLACK SILICONE BASE MATERIAL

| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|---|-------|---|
| | | | | No.1 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Sum of PBBs | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| Monobromobiphenyl | | | 5 | n.d. |
| Dibromobiphenyl | | | 5 | n.d. |
| Tribromobiphenyl | | | 5 | n.d. |
| Tetrabromobiphenyl | | | 5 | n.d. |
| Pentabromobiphenyl | | | 5 | n.d. |
| Hexabromobiphenyl | | | 5 | n.d. |
| Heptabromobiphenyl | | | 5 | n.d. |
| Octabromobiphenyl | | | 5 | n.d. |
| Nonabromobiphenyl | | | 5 | n.d. |
| Decabromobiphenyl | | | 5 | n.d. |
| Sum of PBDEs | | | mg/kg | With reference to IEC 62321: 2008 and performed by GC/MS. |
| Monobromodiphenyl ether | 5 | n.d. | | |
| Dibromodiphenyl ether | 5 | n.d. | | |
| Tribromodiphenyl ether | 5 | n.d. | | |
| Tetrabromodiphenyl ether | 5 | n.d. | | |
| Pentabromodiphenyl ether | 5 | n.d. | | |
| Hexabromodiphenyl ether | 5 | n.d. | | |
| Heptabromodiphenyl ether | 5 | n.d. | | |
| Octabromodiphenyl ether | 5 | n.d. | | |
| Nonabromodiphenyl ether | 5 | n.d. | | |
| Decabromodiphenyl ether | 5 | n.d. | | |

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| Test Item (s): | Unit | Method | MDL | Result |
|---|-------|--|-----|--------|
| | | | | No.1 |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: 014762-94-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | 348 |
| Halogen-Chlorine (Cl) (CAS No.: 022537-15-1) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| Halogen-Bromine (Br) (CAS No.: 010097-32-2) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| Halogen-Iodine (I) (CAS No.: 014362-44-8) | mg/kg | With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |

- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. "-" = Not Regulated

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chung
- 3) Name of the person in charge of measurement: Ray Chang



| Sample Material | Digestion Acid |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

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PBB/PBDE analytical FLOW CHART

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



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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

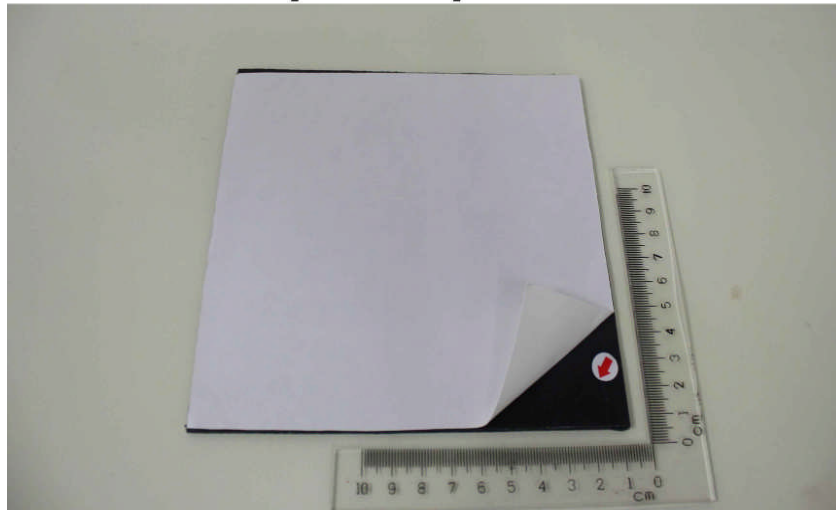


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* The tested sample / part is marked by an arrow if it's shown on the photo. *

KE/2011/C1154



** End of Report **

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