



**Test Report**

No. SH6032899-1/CHEM

Date: Apr.11,2006

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POLYONE SHANGHAI  
88 GUOSHOUJING ROAD

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SH6032899/CHEM DATE:Mar.27,2006

Report on the submitted sample said to be FR1020/FR1613/FR5048/FR5085/FR5086/FR5090/  
FR6088/FR6089/FR5080/ECCOH5575.

SGS Ref No. : SHEC0060314279

Sample Receiving Date : Mar. 24, 2006  
Testing Period : Mar. 24 - 29, 2006

Test Requested : 1) To determine the Cadmium, Lead, Mercury, Hexavalent Chromium Content of the submitted sample.  
2) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method/Test Results: Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

  
Ella Zhang  
Sr. Section Head

# SGS

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### Test method

#### 1) Cadmium (Cd)

With reference to BS EN 1122:2001, Method B or other acid digestion see flowchart (1) for sample.

Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

#### Lead (Pb)

With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion see flowchart (2) for sample.

Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

#### Mercury (Hg)

With reference to US EPA 3052/EPA7473 or other acid digestion for sample

Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES)/Hg Analyzer.

#### Hexavalent Chromium (Cr<sup>VI</sup>)

With reference to US EPA3060A and US EPA7196A for sample  
Analysis was performed by UV-VIS Spectrometric method.

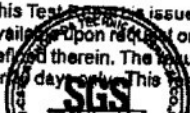
#### 2) With reference to USEPA 8081/8270C/3540C/3550B, Analysis was performed by GC/MS:

### Test Results

#### 1) Cadmium, Lead, Mercury, Hexavalent Chromium Content

Item	Unit	DL	No.1
Cadmium (Cd)	mg/kg	2	N.D.
Lead (Pb)	mg/kg	2	N.D.
Mercury (Hg)	mg/kg	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.

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### 2) PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content

Item	Unit	DL	No.1
Polybrominated biphenyls (PBBs)	---	---	---
PBBs(Monobromobiphenyl)	mg/kg	5	N.D.
PBBs(Dibromobiphenyl)	mg/kg	5	N.D.
PBBs(Tribromobiphenyl)	mg/kg	5	N.D.
PBBs(Tetrabromobiphenyl)	mg/kg	5	N.D.
PBBs(Pentabromobiphenyl)	mg/kg	5	N.D.
PBBs(Hexabromobiphenyl)	mg/kg	5	N.D.
PBBs(Heptabromobiphenyl)	mg/kg	5	N.D.
PBBs(Octabromobiphenyl)	mg/kg	5	N.D.
PBBs(Nonabromobiphenyl)	mg/kg	5	N.D.
PBBs(Decabromobiphenyl)	mg/kg	5	N.D.
Polybrominated biphenyl ethers ( PBBEs(PBDEs) )	---	---	---
PBBEs(PBDEs)(Monobromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Dibromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Tribromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Tetrabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Pentabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Heptabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Octabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Decabromobiphenyl ether)	mg/kg	5	N.D.

#### Sample Appearance Description(Photo see appendix):

No.1. White plastic pellet

Note : 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

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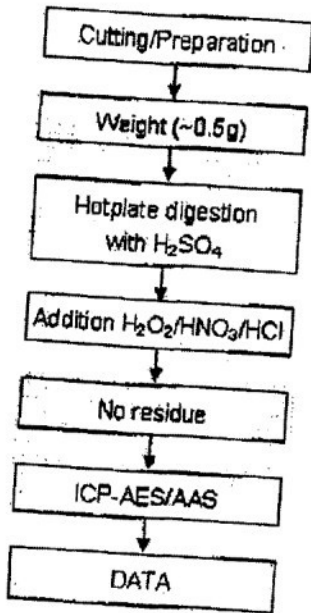
Date: Apr.11,2006

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ATTACHMENTS

Flow chart 1

Flow chart of digestion for Cd



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by : Mary Cao  
Checked by : Terry Wang



Test Report

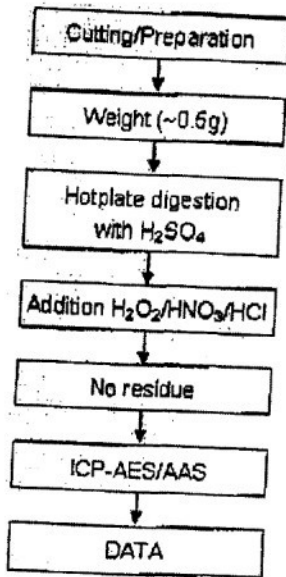
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Flow chart 2

Flow chart of digestion for Pb



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by : Jeff Zhang  
Checked by : Terry Wang

\*\*\* End of Report \*\*\*

