



1579970

Date: 8-Jan-2009

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Client: Wonderful Plastic Limited Partnership

259 Moo 12, T.Klongdan,

A.Bangbor Samutprakarn 10550 Thailand

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

Sample Description

: Poly LDPE-BAG

Sample No.

1610302

Sample Condition

: As per attached photograph

Sample Receiving Date: 5-Jan-2009

Testing Period

05-Jan-2009 to 08-Jan-2009

Test Requested

: In accordance with the RoHS Directive 2002/95/EC and its amendment directives

Test Method

: (1) With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-OES.

(2) With reference to BS EN1122: 2001, Method B for Cadmium Content. Analysis was performed by ICP-OES.

(3) With reference to EPA Method 3052 for Mercury Content. Analysis was

performed by ICP-OES.

(4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium.

Analysis was performed by UV/Vis Spectrometry.

Test Results

: Please refer to next page.

Signed for and on behalf of SGS (Thailand) Limited

Pornpana Lirathpong **Hardlines Testing Manager**

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TEST RESULTS

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	n.d.	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI)	(4)	n.d.	2	1000

Test Part Description Result (1) transparent plastic

Note:

(1) mg/kg = ppm

(2) n.d. = Not Detected

(3) MDL = Method Detection Limit

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Flow chart of digestion (EPA 3050B for Pb)
      +----+
      | Cutting/Preparation |
      | Sample measurement |
            1
       -----+
      | digestion with HNO3 |
            Ĩ
      | add H2O2 + Hcl |
      +-----
         | digestion |
            1
         | Filtration |
No residue
                             Residue
                      +----+
                      | Ashing with H2SO4 |
                             - 1
                         +----+
                         | Add HNO3 |
                             - 1
                          No residue
             1
         +----+
                      +----+
         | ICP-OES | ---- | DATA |
         +-----
```

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

Operator : Siam Polarwut

Section Chief : Laddawan Uranpitr

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Flow chart of digestion (EPA 3060A, 7196A for Cr(VI)) | Cutting/Preparation | ______ Sample measurement | ----| Add digestion solution (NaOH+Na2CO3) | | Add MgCl2 and phosphate buffer | -----| add HNO3 | +----+ | Colorimetrically | --------| UV-Spectrophotometer | _____ | DATA | +----+

Operator : Wanwisa Saekow

Section Chief : Laddawan Uranpitr

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SAMPLE/ATTACHMENT PICTURE



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