

Test Report No. 3449177

Date : 12-Jan-2017

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**Client : Union Thai-Nichiban Co.,Ltd.
 Head Office, 12 Soi Serithai 62,
 Minburi Bangkok 10510 Thailand**

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

Sample Name : CELLULOSE TAPE
 Sample Description : Tape
 Sample No. : 3550197
 Sample Condition : Sample is contained in a plastic bag.
 Quantity Submitted : 1 roll
 Manufacturer/Vendor : UNION THAI - NICHIBAN CO.,LTD.
 Country of Origin : THAILAND

Sample Receiving Date : 6-Jan-2017
 Testing Period : 09-Jan-2017 to 12-Jan-2017

Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]

Test Method : (1) IEC 62321-5 edition 1.0 : 2013 for Lead content, Analyzed by ICP-OES.
 Microwave digestion method
 (2) IEC 62321-5 edition 1.0 : 2013 for Cadmium content, Analyzed by ICP-OES.
 Microwave digestion method
 (3) IEC 62321-4 edition 1.0 : 2013 for Mercury content, Analyzed by ICP-OES.
 Microwave digestion method
 (4) IEC 62321 edition 1.0 : 2008 Annex C for Hexavalent Chromium Content, Analyzed by UV/Vis Spectrometry.
 (5) IEC 62321 edition 1.0 : 2008, Annex A for PBBs/PBDEs content, Analyzed by GC/MS.

Test Results : Please refer to next page.

**Signed for and on behalf of
 SGS (Thailand) Limited**



**Patcharee Treepomcharoen
 Laboratory manager - Chemical**

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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) by Alkaline Digestion/Colorimetric Method	(4)	n.d.	2	1000

Test Part Description
Result (1) clear plastic tape

Note :

- (a) mg/kg = ppm ; 0.1wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) Test done on client submitted sample

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

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

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

Test Part Description

Result (1) clear plastic tape

Note :

- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) "-" = Not regulated
- (e) Test done on client submitted sample

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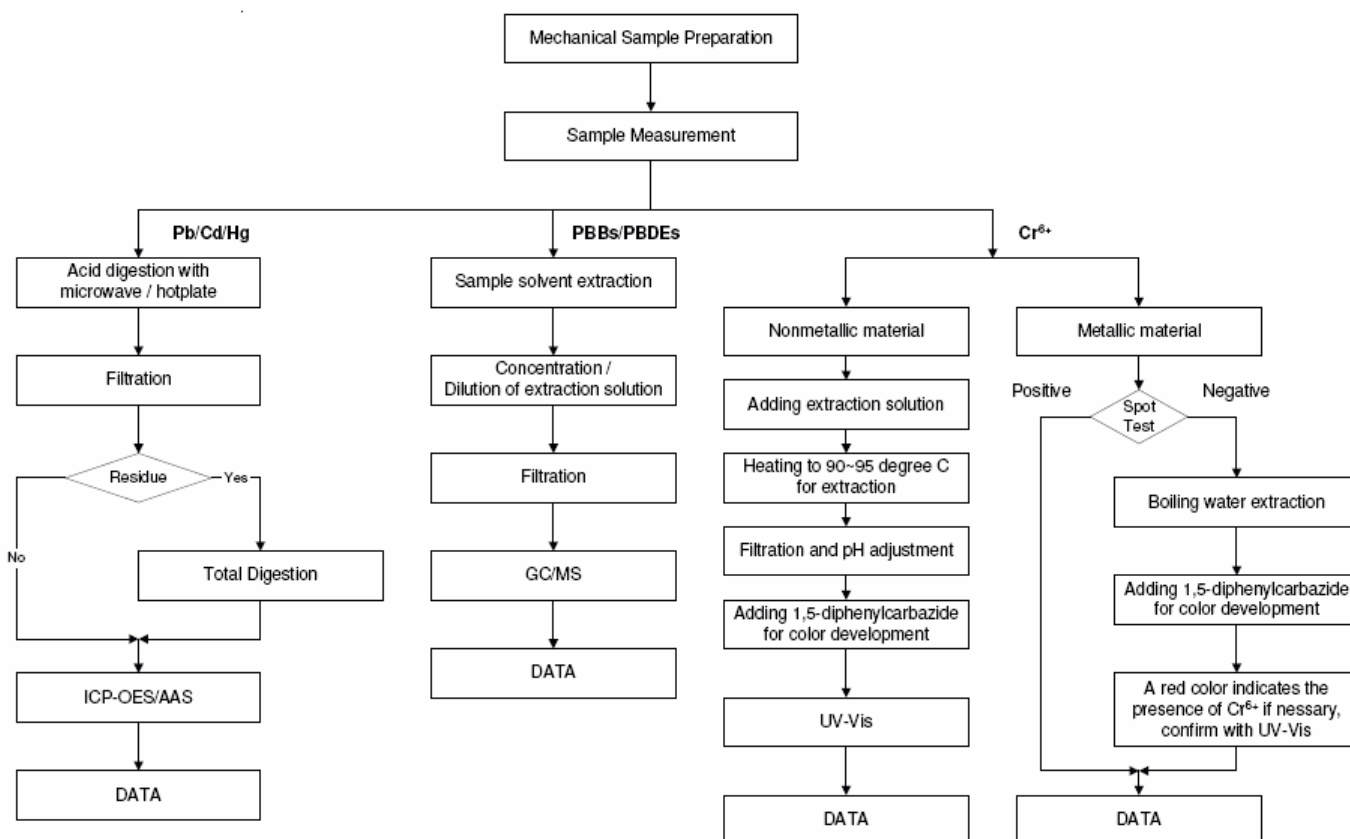
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Flow Chart for IEC 62321 : Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing

1. Operator : Siam Polarwut
2. Section Chief : Patcharee Treeporncharoen
3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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SAMPLE/ATTACHMENT PICTURE



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

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