

Test Report

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3M TAIWAN LTD.
66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN,
R. O. C.



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

Sample Description : 3M DOUBLE COATED TISSUE TAPE
Style/Item No. : 9888T
Sample Receiving Date : 2008/04/11
Testing Period : 2008/04/11 TO 2008/04/18 AND 2008/04/16 TO 2008/04/18

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Test Result(s) : Please refer to next page(s).
Conclusion : Base on the performed tests on submitted samples, the results **comply with** the PAHs requirement according to (Category 1) of ZEK 01-08 of German ZLS and its amendments.

* This report is added testing by CE/2008/43407 *

Shin-Jyh Chen
Shin-jyh Chen / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Result(s)

PART NAME NO.1 : TRANSPARENT DOUBLE ADHESIVE TAPE
(EXCLUDING THE RELEASE PAPER)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Polycyclic aromatic Hydrocarbons (PAHs)	---	---	---	---
Phenanthrene (CAS No.: 000085-01-8)	mg/kg	With reference to ZLS standard ZEK 01-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.
Fluorene (CAS No.: 000086-73-7)			0.2	n.d.
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	n.d.
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	n.d.
Anthracene (CAS No.: 000120-12-7)			0.2	n.d.
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.
Acenaphthene (CAS No.: 000083-32-9)			0.2	n.d.
Sum of 16 PAHs			0.2	n.d.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by GC/MS.	5	n.d.
PFOS	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was	1	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	With reference to DIN 53313 and IEC 62321 ed.1. Analysis was performed by GC/MS.	10	n.d.
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	Negative

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. "---" = Not Conducted
 6. ** = Qualitative analysis (No Unit)
 7. Negative = Undetectable / Positive = Detectable

Reference information:

Requirement of ZEK 01-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 16 EPA-PAH (mg/kg)*	<MDL (<0.2)**	10	200

Remark : * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

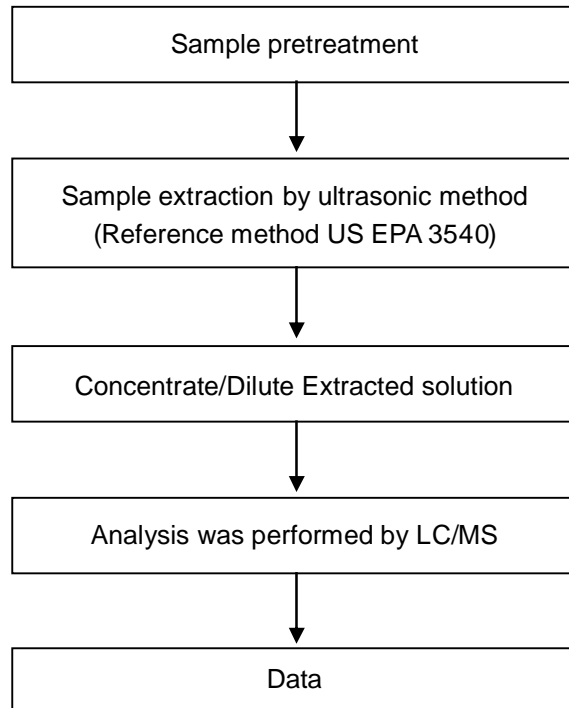
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Analytical flow chart of PFOA/PFOS content



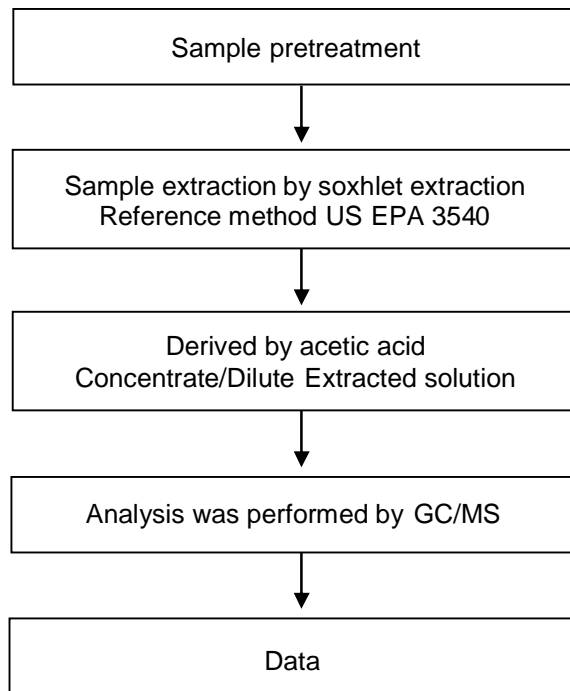
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TBBP-A analytical flow chart



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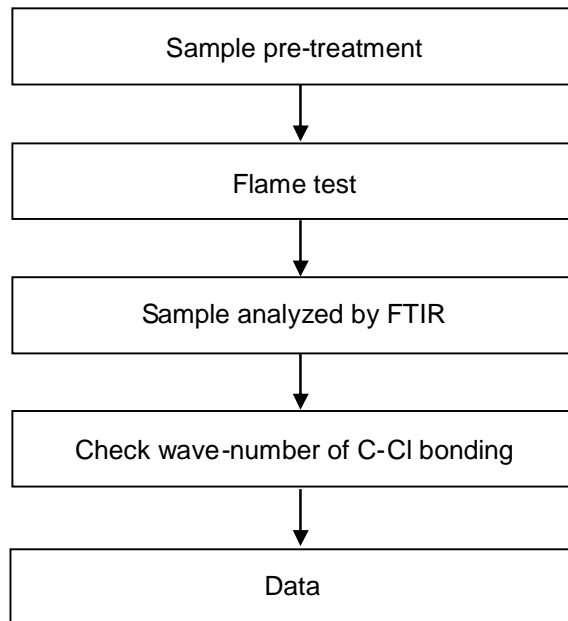
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Analysis flow chart for determination of PVC in material

- 1) Name of the person who made measurement: Tin Lan
- 2) Name of the person in charge of measurement: Shinjyh Chen



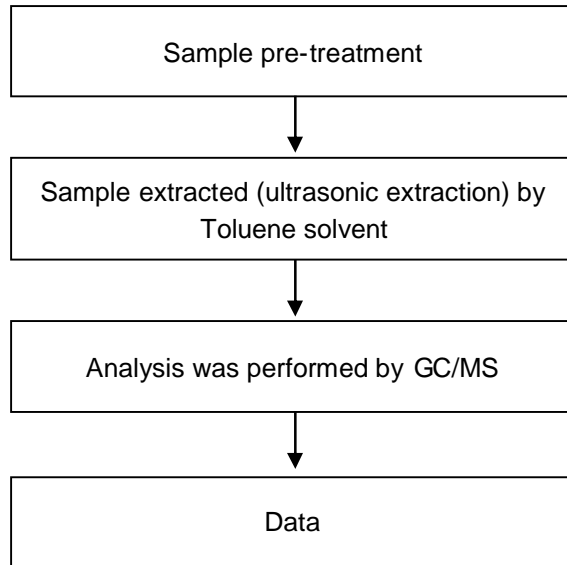
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PAHs (Poly Aromatic Hydrocarbons) analytical flow chart



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** End of Report **