

Test Report

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AN-DIANN ENTERPRISE CO., LTD. / HON MON ENTERPRISE CO., LTD.
NO.71,CHENG GONG ST., GUAN TIAN INDUSTRIAL PARK, 72046 TAINAN CITY , TAIWAN (R.O.C.)

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

Sample Description : SBR
Style/Item No. : SBR-BLACK
Material Component : STYRENE-BUTADIENE RUBBER
Color : BLACK
Sample Receiving Date : 2014/11/10
Testing Period : 2014/11/10 TO 2014/11/13
Sample Submitted By : AN-DIANN ENTERPRISE CO., LTD.

Test Requested : To determine Polynuclear Aromatic Hydrocarbons (PAHs).

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

Conclusion : Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 3) of ZEK 01.4-08 of German ZLS and its amendments.



Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung

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Test Result(s)

PART NAME No.1 : BLACK SBR

Test Item(s)	Unit	Method	MDL	Result No.1
Polynuclear Aromatic Hydrocarbons (PAHs)				
Phenanthrene (CAS No.: 85-01-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	1.47
Pyrene (CAS No.: 129-00-0)			0.2	6.71
Naphthalene (CAS No.: 91-20-3)			0.2	1.21
Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)			0.2	0.332
Fluorene (CAS No.: 86-73-7)			0.2	n.d.
Fluoranthene (CAS No.: 206-44-0)			0.2	3.07
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)			0.2	n.d.
Chrysene (CAS No.: 218-01-9)			0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 207-08-9)			0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 191-24-2)			0.2	0.983
Benzo[b]fluoranthene (CAS No.: 205-99-2)			0.2	n.d.
Benzo[a]pyrene (CAS No.: 50-32-8)			0.2	n.d.
Benzo[a]anthracene (CAS No.: 56-55-3)			0.2	n.d.
Anthracene (CAS No.: 120-12-7)			0.2	n.d.
Acenaphthylene (CAS No.: 208-96-8)			0.2	3.21
Acenaphthene (CAS No.: 83-32-9)			0.2	n.d.
Benzo[e]pyrene (CAS No.: 192-97-2)			0.2	n.d.
Benzo[j]fluoranthene (CAS No.: 205-82-3)			0.2	n.d.
Sum of 18 PAHs	mg/kg	-	-	16.985

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Note :

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

Reference information:

Requirement of ZEK 01.4-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or toys for children aged < 36 months with intended skin contact.	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin contact).	Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 18 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

** = If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.

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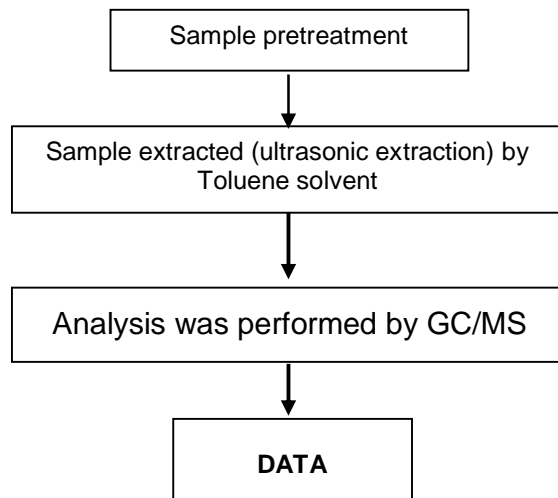
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PAHs (PolyAromaticHydrocarbons) analytical flow chart

- 1) Name of the person who made measurement: Dorothy Chen
- 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. *

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** End of Report **

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