



# TEST REPORT

Report No.: HX201406186

**Applicant:** TIANJIN HUAYUAN ZHENGXING RUBBER PRODUCTS CO., LTD.  
**Address:** Zhangjiawo village, zhangjiawo town, xiqing district, tianjin, china

**Report on the submitted sample(s) said to be:**

Name: Bicycle tyre  
Type/Model: 26 x 1.95  
Material: Rubber  
Buyer: Diedrich Filmer GmbH  
Supplier: -----

Date of Receipt: Jul.11, 2014 Test period: Jul.11, 2014 – Jul.16, 2014

**Test Request:** Polycyclic Aromatic Hydrocarbons (PAHs) Content

**Test Result:** Please refer to following page(s).

Tested by Lank. wang Reviewed by Kevin Ren Approved by Hailan Wang

Seal of:  
**GUANGZHOU GRG METROLOGY & TEST CO., LTD.**  
Issue date: Jul.16, 2014

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**GUANGZHOU GRG METROLOGY & TEST CO., LTD.**

Address: 163 Pingyun Road West of Huangpu Avenue Tianhe District Guangzhou City, 510656, P. R. China  
Tel: +86-020-66664900 FAX: +86-020-38698685 <http://www.grgtest.com>

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## Sample Description

1. Black rubber bicycle tyre

## Test results

Test method: ZEK01.4-08 - Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAH) in the course of GS-Mark Certification

Test Item	CAS No.	Result	Unit	MDL
		1		
Naphthalene	91-20-3	2.9	mg/kg	0.2
Acenaphthylene	208-96-8	0.7	mg/kg	0.2
Acenaphthene	83-32-9	2.7	mg/kg	0.2
Fluorene	86-73-7	8.0	mg/kg	0.2
Phenanthrene	85-01-8	15.8	mg/kg	0.2
Anthracene	120-12-7	3.1	mg/kg	0.2
Fluoranthene	206-44-0	7.3	mg/kg	0.2
Pyrene	129-00-0	16.1	mg/kg	0.2
Benzo[a]anthracene	56-55-3	1.8	mg/kg	0.2
Chrysene	218-01-9	3.7	mg/kg	0.2
Benzo[b]fluoranthene and Benzo[j]fluoranthene	205-99-2 205-82-3	0.7	mg/kg	0.2
Benzo[k]fluoranthene	207-08-9			
Benzo[a]pyrene	50-32-8	0.6	mg/kg	0.2
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	mg/kg	0.2
Dibenz[a,h]anthracene	53-70-3	0.3	mg/kg	0.2
Benzo[g,h,i]perylene	191-24-2	0.9	mg/kg	0.2
Benzo[e]pyrene	192-97-2	2.7	mg/kg	0.2
<b>Sum of 18 PAHs</b>	---	67.5	mg/kg	---

Remark: 1) mg/kg = ppm  
2) MDL= Method Detection Limit

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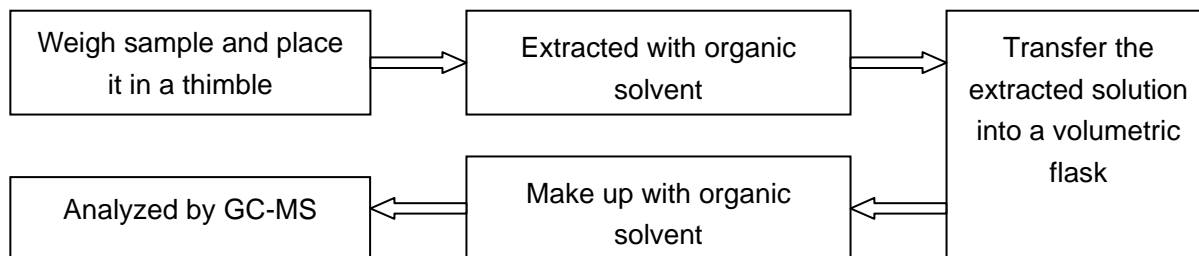
**Limit:**

Parameter	Category 1	Category 2	Category 3
	Materials intended to be put in the mouth or materials of toys for children aged < 36 months with intended skin contact <sup>2)</sup>	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)
Benzo[a]pyrene (mg/kg)	Not detectable (< 0.2) <sup>1)</sup>	1	20
Sum 18 PAHs (mg/kg)	Not detectable (< 0.2) <sup>1)</sup>	10	200

<sup>1)</sup> If the limits of category 1 are surpassed but the limits of category 2 still met, one may confirm the suitability of the tested material which intended to be put in the mouth 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.

<sup>2)</sup> According to the regulations of the EK2.

**Test Process for PAHs.**



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Photo of Sample



-----End of Report-----

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