

Test Report No.: 68.300.22.9177.01A

Dated: 2022-11-23



Applicant : Guangzhou Leqi Amusement Equipment Co.,LTD
No.33, Tai An Road, Da Long Street, Pan Yu Dist, Guang
Zhou, China

Attention : Robert.Lee

Sample Description : Indoor Playground

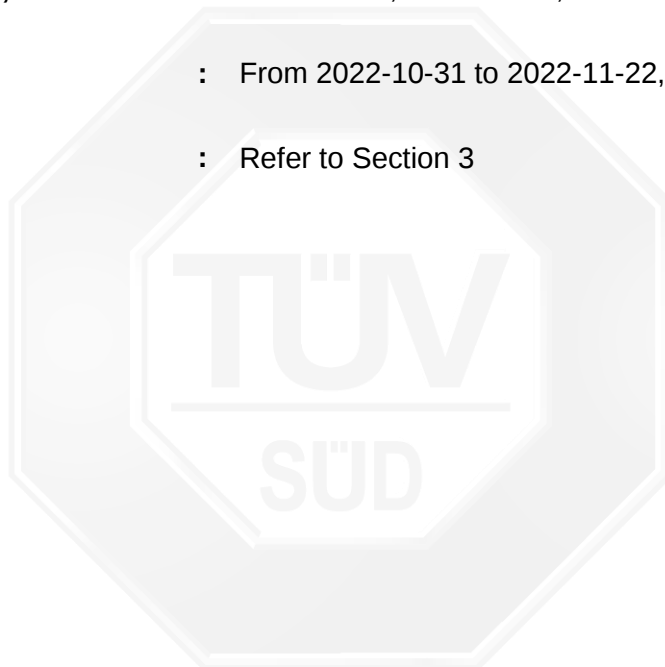
Supplier/Manufacturer : Guangzhou Leqi Amusement Equipment Co.,LTD

Country of Origin : China

Test Sample Receipt Date, Location : 2022-10-31, 2022-11-18, Shenzhen

Test Period, Location : From 2022-10-31 to 2022-11-22, Shenzhen

Test Result(s) : Refer to Section 3



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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	Total Lead Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 63 and its amendment Regulation (EU) 2015/628	Pass
2.	Polycyclic Aromatic Hydrocarbons (PAHs) Regulation (EC) No.1907/2006 and its amendment (EU) No. 1272/2013 Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 50	Pass
3.	Phthalates Regulation (EC) No.1907/2006 and its amendment Regulation (EC) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52.	Pass
4.	Total Cadmium Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.	Pass

Remarks:

(3) The results relate only to the items tested.

(2) Samples are tested as received.

(3) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

TÜV SÜD Group

Prepared by:

Reviewed by:



Simon Liu
Project Engineer

Samson Ye
Senior Project Engineer

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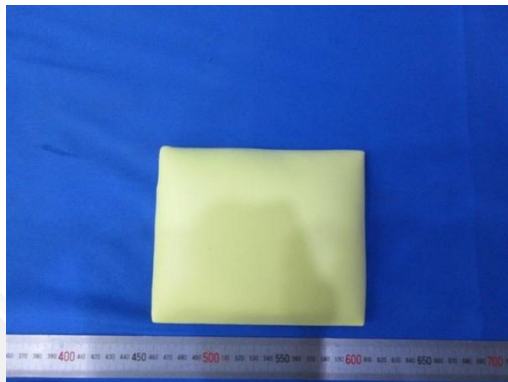
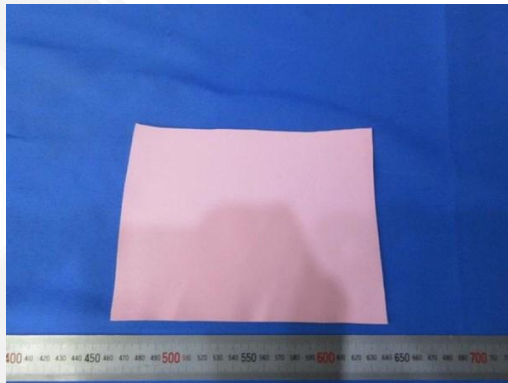
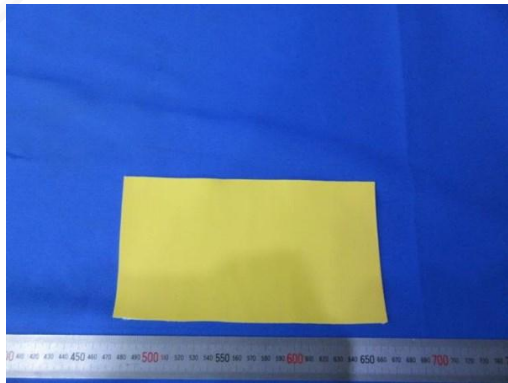
Regd. Office:

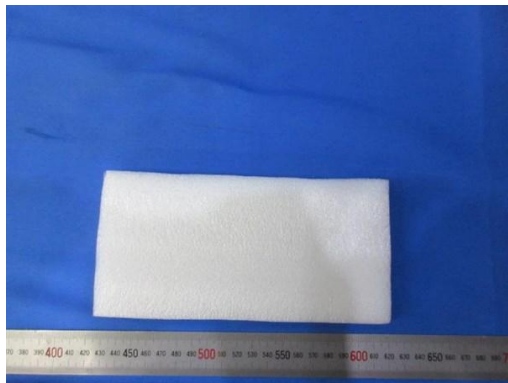
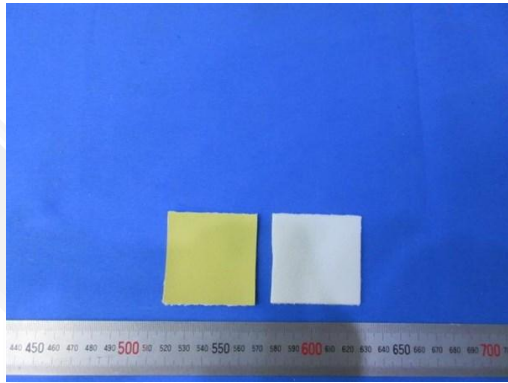
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Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, 518052, P. R. China

1. Description of the Test Sample:

Sample Description	Indoor Playground
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2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Yellow synthetic leather with white flocking backing	
T2	002	Pink synthetic leather with white flocking backing	
T3	003	Dark yellow synthetic leather with white flocking backing	

T. No.	Sample No.	Colour and Description	Photograph
T4	004	White foam	
T5	005	Dark yellow synthetic leather with white flocking backing	

3. Test Results

3.1 Total Lead

Regulation (EC) No.1907/2006 (REACH) Annex XVII, Entry 63 and its amendment Regulation (EU) 2015/628

Microwave / Acid Digestion and detection with ICP-OES/ AAS

[Reporting Limit = 10.0mg/kg]

Sample No	CAS No.	Result [mg/kg]	Limit [mg/kg]	Conclusion
001+002+003	7439-92-1	<10.0	<500	Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3.2 Polycyclic Aromatic Hydrocarbons (PAHs)

Regulation (EC) No.1907/2006 and its amendment (EU) No. 1272/2013

Regulation (EC) No. 552/2009 (REACH) Annex XVII, Entry 50

Test with reference to AfPS GS 2019:01 PAK Solvent extraction followed by GC-MS analysis.

[Reporting Limit = 0.1mg/kg]

PAHs	CAS No.	Results [mg/kg]
		Sample 001+002+003
Benzo[a]pyrene	50-32-8	<0.1
Benzo[e]pyrene	192-97-2	<0.1
Benzo[a]anthracene	56-55-3	<0.1
Chrysene	218-01-9	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1
Dibenzo[ah]anthracene	53-70-3	<0.1
Limit		8 REACH banned PAHs each < 1 mg/kg
Conclusion		Pass

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. Limit: 0.5 mg/kg for Toys (including activity toys): Childcare articles, 1.0 mg/kg for sports equipment such as bicycles, golf clubs, racquets; House-hold utensils, trolleys, walking frames; tools for domestic use; Clothing footwear, gloves and sportswear; Watch-straps wrist-bands, masks, head-bands.

3.3 Phthalates.

Regulation (EC) No.1907/2006 and its amendment

Regulation (EC) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52.

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 002	Sample 003	Sample 004	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	<0.005	Sum of DEHP, DBP, BBP & DIBP: <0.1% by weight ^{#1 #3}
Dibutyl phthalate, DBP	84-74-2	<0.005	<0.005	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	<0.005	<0.005	
Diisobutylphthalate, DIBP	84-69-5	<0.005	<0.005	<0.005	
Sum of DBP, BBP, DEHP, DIBP	-	<0.005	<0.005	<0.005	Sum of DINP, DIDP & DNOP: <0.1% by weight ^{#2}
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	0.006	<0.005	0.006	
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	<0.005	<0.005	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	<0.005	<0.005	
Sum of DINP, DIDP, DNOP	-	0.006	<0.005	0.006	-
Conclusion		Pass	Pass	Pass	

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. "^{#1}" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles.

4. "^{#2}" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

5. "^{#3}" denotes the limit of DEHP, DBP, BBP and DIBP for plasticized material in articles.

3.3 Phthalates.

Regulation (EC) No.1907/2006 and its amendment

Regulation (EC) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52.

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]	Limit [%]
		Sample 005	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	Sum of DEHP, DBP, BBP & DIBP: <0.1% by weight ^{#1 #3}
Dibutyl phthalate, DBP	84-74-2	<0.005	
Benzyl butyl phthalate, BBP	85-68-7	<0.005	
Diisobutylphthalate, DIBP	84-69-5	<0.005	
Sum of DBP, BBP, DEHP, DIBP	-	<0.005	
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	<0.005	Sum of DINP, DIDP & DNOP: <0.1% by weight ^{#2}
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	<0.005	
Di-n-octyl phthalate, DNOP	117-84-0	<0.005	
Sum of DINP, DIDP, DNOP	-	<0.005	
Conclusion		Pass	-

Note 1. "<" denotes less than

2. "%" denotes percentage by weight .

3. "^{#1}" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles.

4. "^{#2}" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

5. "^{#3}" denotes the limit of DEHP, DBP, BBP and DIBP for plasticized material in articles.

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3.4 Total Cadmium

Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.
Microwave digestion and followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)
[Reporting Limit = 10.0mg/kg]

Sample No	CAS No.	Result [mg/kg]	Limit [mg/kg]	Conclusion
001+002+003	7440-43-9	<10.0	<100	Pass
004	7440-43-9	<10.0	<100	Pass

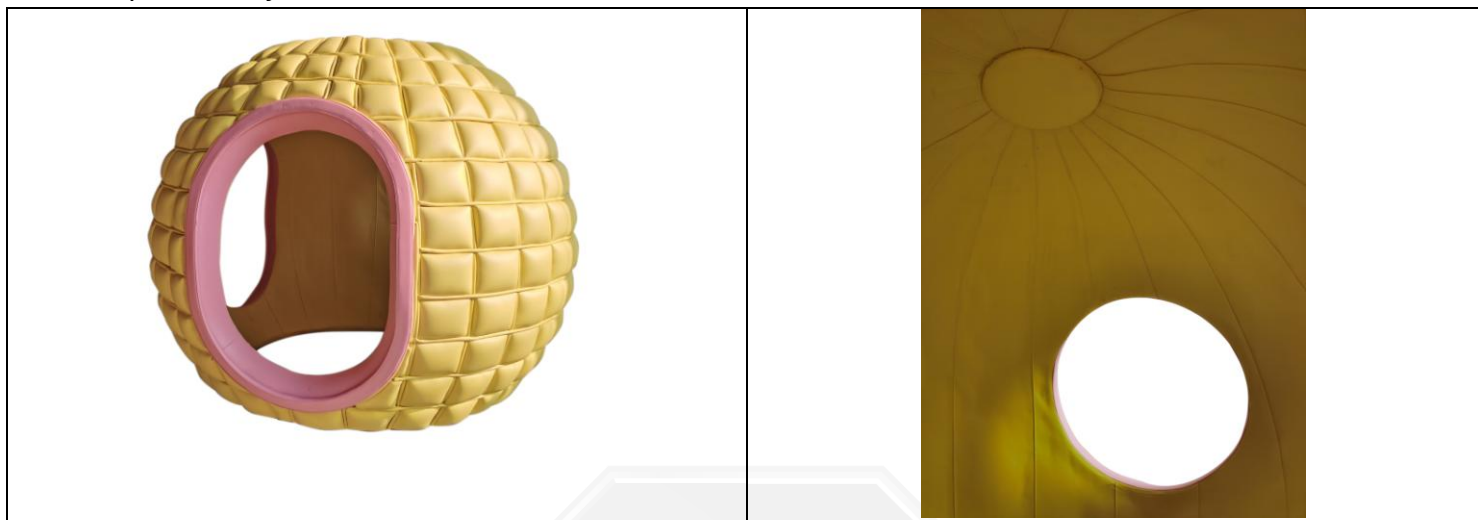
Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

Material / Product	Limit
Plastics	<100 mg/kg
Metal jewellery / imitation jewellery articles and hair accessories	<100 mg/kg
Brazing Fillers	<100 mg/kg
Coating	<1000 mg/kg
Paint with TARIC codes [3208],[3209] Zinc content > 10%	<1000 mg/kg
Paint with TARIC codes [3208],[3209] with Zinc Content ≤ 10%	<100 mg/kg

APPENDIX I

Photos provided by client:



-- END OF THE TEST REPORT --

