



Test Report

No.T52210232424TC

Date: FEB 11, 2022

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SHANTOU QIYI PLASTIC PRODUCTS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

PUZZLE TOYS

Client Reference Information : 313,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,
330,336,EQY503,EQY505,EQY506,EQY507,EQY508,EQY509,EQY510,
EQY511,EQY512,EQY513,EQY514,EQY515,EQY516,EQY517,EQY518,
EQY529,EQY530,EQY537,EQY538,EQY539,EQY543,EQY544,EQY545,
EQY549,EQY572,EQY574,EQY576,EQY603,EQY604,EQY609,EQY610,
EQY642,EQY643,EQY655,EQY656,EQY657,EQY658,EQY665,EQY666,
EQY730,EQY732,EQY733,EQY753,EQY757,EQY762,EQY763,EQY769,
EQY770,EQY771,EQY772,EQY811,EQY814,EQY815,EQY816,EQY817,
EQY818,EQY819,EQY871,EQY872,EQY905,EQY906,EQY907

SGS Ref. No. : WT20220124055
Sample Receiving Date : JAN 27, 2022
Testing Period : JAN 27, 2022 TO FEB 11, 2022



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Test Requested		Conclusion
1.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalates content in the specified specimen(s) as listed (Selected test items as specified by the applicant, please refer to test result page(s) for details)	PASS
2.	Phthalates Content in the specified specimen(s) as listed	SEE RESULT

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



Qu Ping, Kiky
Dept. Manager



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Results:

1. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Materials can be placed in the mouth for toys & childcare articles

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	1	1	1		
Tracing No.	--	1	2	3		
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	1	1	1		
Tracing No.	--	4	5	6		
Specimen No.	--	4	5	6		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	1	1		
Tracing No.	--	7	8		
Specimen No.	--	7	8		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	1	1		
Tracing No.	--	9	10		
Specimen No.	--	9	10		
Dibutyl Phthalate (DBP)	84-74-2	0.019	0.016	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		0.019	0.016	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1

Specimen Description:

1. Black plastic (Body) + White plastic (Body) + Dark pink plastic (Body)
2. Yellow plastic (Body) + Green plastic (Body) + Orange plastic (Body)
3. Blue plastic (Body) + Brown plastic (Body) + Dark blue plastic label (Sticker)
4. Laminated plastic label w/ red printing (Sticker) + Laminated plastic label w/ cream printing (Sticker) + Laminated plastic label w/ pink printing (Sticker)
5. Laminated plastic label w/ dark green printing (Sticker) + Laminated plastic label w/ blue printing (Sticker) + Laminated plastic label w/ light blue printing (Sticker)
6. Laminated plastic label w/ orange printing (Sticker) + Laminated plastic label w/ yellow printing (Sticker) + Laminated plastic label w/ purple printing (Sticker)
7. Laminated plastic label w/ light green printing (Sticker) + Laminated plastic label w/ grey printing (Sticker) + Dark red plastic label (Sticker)
8. Laminated plastic label w/ dark yellow printing (Sticker) + Green plastic label (Sticker) + Laminated plastic label w/ dark orange-red printing (Sticker)
9. Red coating on plastic (Pattern) + Yellow coating on plastic (Pattern) + Green coating on plastic (Pattern)
10. Dark blue coating on plastic (Pattern, lettering) + Orange coating on plastic (Pattern) w/ Black coating on plastic (Lettering)



Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article(As per client's request)

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
Alias No.	--	1		
Tracing No.	--	11		
Specimen No.	--	1		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	--	--

Specimen Description:

1. Cream plastic (Inner) + Green plastic (Inner) + Light green plastic (Inner)

- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - % = percentage by weight
 - Results shown as ND are ignored in the sum calculation
 - The result(s) is (are) calculated using the total specimen weight for composite test
 - Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article, DINP, DNOP and DIDP are tested per client's request, results for client reference only



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2. Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	1	2	3	
Alias No.	--	2	2	2	
Tracing No.	--	1	2	3	
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	4	5	6	
Alias No.	--	2	2	2	
Tracing No.	--	4	5	6	
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	7	8	9	
Alias No.	--	2	2	2	
Tracing No.	--	7	8	9	
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003



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Test Item(s)	CAS No.	Result(s) (%)		MDL (%)
Specimen No.	--	10	11	
Alias No.	--	2	2	
Tracing No.	--	10	11	
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.003
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.003

Specimen Description:

1. Black plastic (Body) + White plastic (Body) + Dark pink plastic (Body)
2. Yellow plastic (Body) + Green plastic (Body) + Orange plastic (Body)
3. Blue plastic (Body) + Brown plastic (Body) + Dark blue plastic label (Sticker)
4. Laminated plastic label w/ red printing (Sticker) + Laminated plastic label w/ cream printing (Sticker) + Laminated plastic label w/ pink printing (Sticker)
5. Laminated plastic label w/ dark green printing (Sticker) + Laminated plastic label w/ blue printing (Sticker) + Laminated plastic label w/ light blue printing (Sticker)
6. Laminated plastic label w/ orange printing (Sticker) + Laminated plastic label w/ yellow printing (Sticker) + Laminated plastic label w/ purple printing (Sticker)
7. Laminated plastic label w/ light green printing (Sticker) + Laminated plastic label w/ grey printing (Sticker) + Dark red plastic label (Sticker)
8. Laminated plastic label w/ dark yellow printing (Sticker) + Green plastic label (Sticker) + Laminated plastic label w/ dark orange-red printing (Sticker)
9. Red coating on plastic (Pattern) + Yellow coating on plastic (Pattern) + Green coating on plastic (Pattern)
10. Dark blue coating on plastic (Pattern, lettering) + Orange coating on plastic (Pattern) w/ Black coating on plastic (Lettering)
11. Cream plastic (Inner) + Green plastic (Inner) + Light green plastic (Inner)

Note:

- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- % = percentage by weight
- The result(s) is (are) calculated using the total specimen weight for composite test



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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012): When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$



Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



SGS authenticate the photo on original report only

*** End of Report ***



SGS-CSTC (China) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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