

TEST REPORT
(시험 성적서)

신청기관 (인) : 효성화학(주)
 APPLICANT : HYOSUNG CHEMICAL CORPORATION

주소 (한글) : 서울특별시 서초구 반포대로 235
 ADDRESS (ENGL.) : 235, Banpo-daero, Seocho-gu,
 Seoul, Korea

발행면수 (PAGE) : 1 of 4
 발행일자 (DATE) : 2019. 12. 18.

시험성적서 번호 (REPORT NO.) : RT19R-S5536-K

시료 명세 (SAMPLE DESCRIPTION) : 시료에 대한 상세한 정보는 아래와 같음
 (The following submitted sample(s) said to be)

제품명/형식 (NAME/TYPE OF PRODUCT) : POKETONE A
 (POKETONE A)

시료고유번호 (SAMPLE ID NO.) : RT19R-S5536
 (RT19R-S5536)

품번 (ITEM NO.) : M630A, M930A, M330A, M430A, M530A, M730A, M640A, M610A, M710A
 (M630A, M930A, M330A, M430A, M530A, M730A, M640A, M610A, M710A)

제품 생산자/공급자 (MANUFACTURER/VENDOR) : 효성화학(주)
 (HYOSUNG CHEMICAL CORPORATION)

시료접수일자 (SAMPLE RECEIVED) : 2019. 12. 12.
 (Dec. 12, 2019)

시험일자 (TESTING DATE) : 2019. 12. 12. ~ 2019. 12. 18.
 (Dec. 12, 2019 ~ Dec. 18, 2019)

시험방법 (TEST METHOD) : 이 시험성적서의 다음 페이지 첨부
 (Please see the following page)

시험결과 (TEST RESULT) : 이 시험성적서의 다음 페이지 첨부
 (Please see the following page)

- 비고 (Notes):
- 이 시험성적서는 제시된 시료 및 시료명으로 시험한 결과로서 유사 대상시료에 적용할 수 없음.
 (The test results presented in this report refer only to the object tested.)
 - 이 시험성적서는 승인없이 복사 사용을 금함.
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 - 이 성적서는 KOLAS 인정과 무관함.
 (This report is not related to the scope of Korea laboratory accreditation scheme.)
 - 이 시험성적서의 품번은 고객의 요청 및 보증서에 의거하여 명기함.
 (The item no. is assigned by client and indicated according to their requirement and guarantee letter.)

승인자 (Approved by)

권한자 (Authorized by)




장준용/기술책임자
 (Jade Jang / Lab. Technical Manager)

박병옥/소장
 (Bo Park / Lab. General Manager)



Authenticity check



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시료명 (SAMPLE DESCRIPTION) : POKETONE A
(POKETONE A)

시험항목 (TEST ITEM)	단위 (UNIT)	분석방법 (TEST METHOD)	검출한계 (MDL)	시험결과 (RESULT)
다환방향족탄화수소 (Polycyclic aromatic hydrocarbons, PAHs)				
나프탈렌 (Naphthalene)	mg/kg	With reference to AfPS GS 2014:01 PAK, by solvent extraction and determined by GC-MS	0.2	N.D.
아세나프틸렌 (Acenaphthylene) ¹⁾	mg/kg		0.2	N.D.
아세나프텐 (Acenaphthene) ¹⁾	mg/kg		0.2	N.D.
플루오렌 (Fluorene) ¹⁾	mg/kg		0.2	N.D.
페난트렌 (Phenanthrene) ¹⁾	mg/kg		0.2	N.D.
안트라센 (Anthracene) ¹⁾	mg/kg		0.2	N.D.
플로란센 (Fluoranthene) ¹⁾	mg/kg		0.2	N.D.
파이렌 (Pyrene) ¹⁾	mg/kg		0.2	N.D.
크리센 (Chrysene) ²⁾	mg/kg		0.2	N.D.
벤조(a)안트라센 (Benzo(a)anthracene) ²⁾	mg/kg		0.2	N.D.
벤조(b)플로란센 (Benzo(b)fluoranthene) ²⁾	mg/kg		0.2	N.D.
벤조(k)플로란센 (Benzo(k)fluoranthene) ²⁾	mg/kg		0.2	N.D.
벤조(a)파이렌 (Benzo(a)pyrene) ²⁾	mg/kg		0.2	N.D.
디벤조(a,h)안트라센 (Dibenzo(a,h)anthracene) ²⁾	mg/kg		0.2	N.D.
인데노(1,2,3-cd)파이렌 (Indeno(1,2,3-cd)pyrene) ²⁾	mg/kg		0.2	N.D.
벤조(g,h,i)페릴렌 (Benzo(g,h,i)perylene) ²⁾	mg/kg		0.2	N.D.
벤조(j)플로란센 (Benzo(j)fluoranthene) ²⁾	mg/kg		0.2	N.D.
벤조(e)파이렌 (Benzo(e)pyrene) ²⁾	mg/kg		0.2	N.D.
Sum of ¹⁾	mg/kg	-	N.D.	
Sum of 18 PAHs	mg/kg	-	N.D.	

Tested by : Miseon Lee

Notes : mg/kg = ppm = parts per million (함량 표시 : 백만분의 일)

< = Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 - 검출한계 이하)

MDL = Method detection limit (검출한계)

Intertek Testing Services Korea Ltd.

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PAHs Limit

Parameter	Category 1	Category 2		Category 3	
		A	B	A	B
Product	Materials indented to be put in the mouth, or materials of toys with intended long-term skin contact (longer than 30s)	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact **		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
Each ²⁾	0.2 mg/kg	0.2 mg/kg	0.5 mg/kg	0.5 mg/kg	1 mg/kg
Sum of ¹⁾	1 mg/kg	5 mg/kg	10 mg/kg	20 mg/kg	50 mg/kg
Naphthalene	1 mg/kg	2 mg/kg		10 mg/kg	
Sum of 18 PAHs	1 mg/kg	5 mg/kg	10 mg/kg	20 mg/kg	50 mg/kg

Remarks: A = Toys in the scope of 2009/48/EC

B = Other products in the scope of ProdSG

¹⁾ = Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene and Fluoranthene

²⁾ = Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Benzo[g,h,i]perylene and Indeno[1,2,3-cd]pyrene

** = "repeated short-term skin contact" according to REACH Annex XVII No. 50 addition regulation (EC) No. 1272/2013

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* 시료 접수 시 시료 상태 :
(View of sample as received)



***** End of Report *****

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