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#### **TEST REPORT**

(시 험 성 적 서)

신청기관 (인) : 금호석유화학 APPLICANT : Kumho Petrochemical						
ADDRESS (ENGL.) :	ADDRESS (ENGL.) : 260-257, Cheoyong-ro, Nam-gu, Ulsan, Korea					
시험성적서 번호 (	REPORT NO	D.) :RT23R-S0331-001-K		(PAGE) : 1 of 5 (DATE) : 2023. 01. 26.		
시료 명세 (SAMPLE DESCRIPTIC	÷۸	시료에 대한 상세한 정보는 아래와 같음 The following submitted sample(s) said to be)		<u> </u>		
제품명/형식 (NAME/TYPE OF PRC		SAN 300 A SAN 300 A)				
재질 (NAME OF MATERIAI		SAN SAN)				
시료고유번호 (SAMPLE ID NO.)		RT23R-S0331-001 RT23R-S0331-001)				
제품 생산자/공급지 (MANUFACTURER/VI		금호석유화학 Kumho Petrochemical)				
시료접수일자 (SAMPLE RECEIVED)		2023. 01. 13. Jan. 13, 2023)				
시험일자 (TESTING DATE)		2023. 01. 13. ~ 2023. 01. 26. Jan. 13, 2023 ~ Jan. 26, 2023)				
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): 1. 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.)

 2. 이 시험성적서는 승인없이 복사 사용을 금함.

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승인자 (Approved by)

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

권한자 (Authorized by)



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

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Authenticity check

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### **TEST REPORT** (시 험 성 적 서)

발행면수 (PAGE): 2 of 5 발행일자 (DATE): 2023.01.26.

시험성적서 <u>번호 (REPORT NO.) : RT23R-S0331-001-K</u>

시료고유번호 (SAMPLE ID NO.) : RT23R-S0331-001 시료명 (SAMPLE DESCRIPTION) : SAN 300 A

(SAN 300 A)

(SAN 300 A 시험항목	5 단위	분석방법	검출한계	시험결과
(TEST ITEM)	(UNIT)	군국장법 (TEST METHOD)	'검 볼 안 게 (MDL)	
		· · · · · ·	(IVIDL)	(RESULT)
카드뮴 (Cadmium, Cd)	mg/kg	With reference to IEC 62321-5 Edition 1.0 : 2013,	0.5	N.D.
납 (Lead, Pb)	mg/kg	by acid digestion and determined by ICP-OES	5	N.D.
수은 (Mercury, Hg)	mg/kg	With reference to IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES	2	N.D.
6가 크롬 (Hexavalent Chromium, Cr <sup>6+</sup> )	mg/kg	With reference to IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer	8	N.D.
폴리브롬화비페닐 (Polybrominated Biphen	yls, PBBs)	· · · · · · · · · · · · · · · · · · ·		
모노브로모비페닐 (MonoBB)	mg/kg		5	N.D.
다이브로모비페닐 (DiBB)	mg/kg		5	N.D.
트라이브로모비페닐 (TriBB)	mg/kg		5	N.D.
테트라브로모비페닐 (TertaBB)	mg/kg	With reference to	5	N.D.
펜타브로모비페닐 (PentaBB)	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
헥사브로모비페닐 (HexaBB)	mg/kg	by solvent extraction and	5	N.D.
헵타브로모비페닐 (HeptaBB)	mg/kg	determined by GC/MS	5	N.D.
옥타브로모비페닐 (OctaBB)	mg/kg		5	N.D.
노나브로모비페닐 (NonaBB)	mg/kg		5	N.D.
데카브로모비페닐 (DecaBB)	mg/kg		5	N.D.
폴리브롬화디페닐에테르 (Polybrominated	Diphenyl Ether	rs, PBDEs)		
모노브로모디페닐에테르 (MonoBDE)	mg/kg		5	N.D.
다이브로모디페닐에테르 (DiBDE)	mg/kg		5	N.D.
트라이브로모디페닐에테르 (TriBDE)	mg/kg	]	5	N.D.
테트라브로모디페닐에테르 (TetraBDE)	mg/kg	With reference to	5	N.D.
펜타브로모디페닐에테르 (PentaBDE)	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
헥사브로모디페닐에테르 (HexaBDE)	mg/kg	by solvent extraction and	5	N.D.
헵타브로모디페닐에테르 (HeptaBDE)	mg/kg	determined by GC/MS	5	N.D.
옥타브로모디페닐에테르 (OctaBDE)	mg/kg	1	5	N.D.
노나브로모디페닐에테르 (NonaBDE)	mg/kg	1	5	N.D.
데카브로모디페닐에테르 (DecaBDE)	mg/kg	] [	5	N.D.

Tested by : Jooyeon Lee, Chano Kim, Hayan Park

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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)

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# **TEST REPORT**

(시 험 성 적 서)

시험성적서 번호 (REPORT NO.): RT23R-S0331-001-K

발행면수 (PAGE): 3 of 5 발행일자 (DATE):2023.01.26.

시료고유번호 (SAMPLE ID NO.) : RT23R-S0331-001 시료명 (SAMPLE DESCRIPTION) : SAN 300 A (CAN 200 A)

(SAN 300 A)					
시험항목	CAS번호	단위	분석방법	검출한계	시험결과
(TEST ITEM)	(CAS NO.)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)
디부틸프탈레이트 (Dibutyl phthalate, DBP)	84-74-2	mg/kg		50	N.D.
디에틸헥실프탈레이트 (Di-(2-ethylhexyl) phthalate, DEHP)	117-81-7	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017,	50	N.D.
벤질부틸프탈레이트 (Benzyl butyl phthalate, BBP)	85-68-7	mg/kg	by solvent extraction and determined by GC/MS	50	N.D.
디이소부틸프탈레이트 (Diisobutyl phthalate, DIBP)	84-69-5	mg/kg	66/1015	50	N.D.

Tested by : Hayan Park

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)

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

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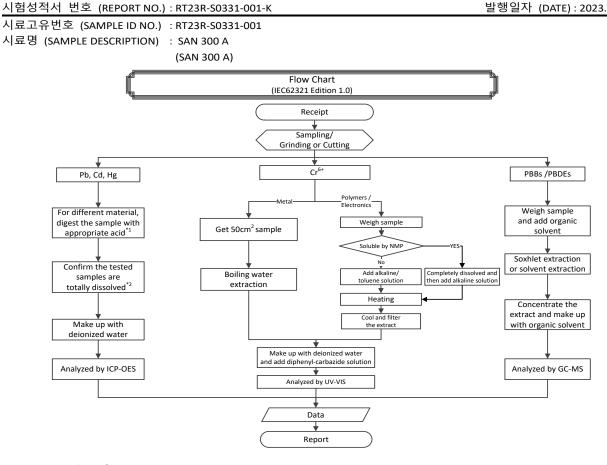
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## TEST REPORT

(시 험 성 적 서)

발행면수 (PAGE):4 of 5 발행일자 (DATE):2023.01.26.



Remarks : \*1 : List of appropriate acid :

. 5					
	Material	Acid added for digestion			
	Polymers	HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub> , H3BO <sub>3</sub>			
	Metals	HNO₃, HCI, HF			
	Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>			

\*2 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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\* You can verify the forgery and authenticity by the barcode at the end of this document.

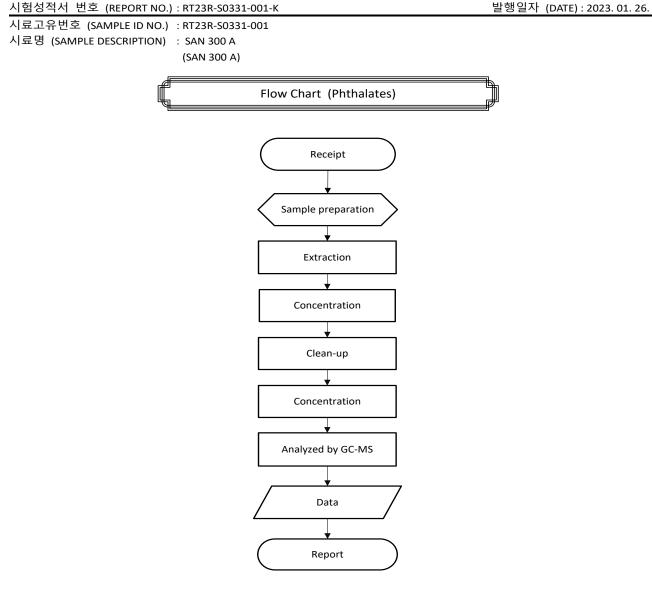
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## TEST REPORT

(시 험 성 적 서)

발행면수 (PAGE):5 of 5 발행일자 (DATE):2023.01.26.



#### \*\*\*\*\* End of Report \*\*\*\*\*

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