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국제공인시험기관인정서

기 관 명: (주)엘지화학 기술연구원

대 표 자:김반석

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사 업 장 소 재 지 : 대전광역시 유성구 문지동 104-1

유 효 기 간: 2010년 6월 9일 ~ 2014년 6월 8일

인정분야 및 범위 : 별첨 참조

상기 시험기관을 KS Q ISO/IEC 17025:2006 인정요건 및 국가표준기본법 제23조의 규정에 의거하여 국제공인시험기관으로 인정합니다. 또한 ISO-ILAC-IAF 공동성명(2009.1.8)에 언급된 바와 같이 인정된 분야 및 범위에 대한 기술적 능력과 시험기관 품질경영시스템이 적절함을 인정합니다.

2011년 8월 10일

한국인정기구



"이면사항기재"

- 1. 2005. 12. 20 : 최초인정
- 2. 2006. 03. 27 : 대표자 변경 (노기호 → 김반석)
- 3. 2008. 04. 15 : 인정분야 변경(2.008 기타 재료 및 제품(건축자재) 폐지).
- 4. 2008. 09. 02 : 인정서 변경
- 5. 2010. 06. 09 : 갱신인정
- 6. 2010. 12. 17 : 추가인정(IEC 62321:2008 등 6개 규격)
- 7. 2011. 08. 10 : 추가인정[2.025 기타환경(1개 규격)]



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2. 화학시험

2.016 기타 석유제품

규격번호	규 격 명	시험범위 및 검출한계
BS EN 1122 : 2001 (ICP-OES)	Plastics - Determination of cadmium - wet decomposition method / Method B	2 mg/kg
KOI-0024-0k (In-house method) IEC 62321 Ed 1 (111/54/CDV):2006와 EPA 3052:1996를 준용한 자체개발규격	플라스틱 중 Pb, Cr분석법	Pb : 5 mg/kg Cr : 2 mg/kg
KOI-0025-0k (In-house method) EPA 7473:2007를 준용한 자체개발규격	플라스틱 중 Hg 분석법	1 mg/kg
KOI-0026-0k (In-house method) IEC 62321 Ed 1 (111/54/CDV):2006와 EPA 3550B:1996를 준용한 자체개발규격	플라스틱 중 PBBs/PBDEs 의 GC/MS에 의한 분석법	5 mg/kg



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2.025 기타환경

규격번호	규 격 명	시험범위 및 검출한계
IEC 62321:2008	Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium,	
	hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)	4 mg/kg
	7 Determination of mercury in polymers by CV-AAS, CVAFS,ICP-OES and ICP-MS	
	Electrotechnical products - Determination of levels of	
	six regulated substances (lead, mercury, cadmium,	
IEC 62321:2008	hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)	10 mg/kg
	8 Determination of lead and cadmium in polymers by	
	ICP-OES,ICP-MS and AAS	•
	Electrotechnical products - Determination of levels of	
	six regulated substances (lead, mercury, cadmium,	
TT G C0004 0000	hexavalent chromium, polybrominated biphenyls,	
IEC 62321:2008	polybrominated diphenyl ethers)	2 mg/kg
	Annex A (informative) Determination of PBB and	
	PBDE in polymers by GC-MS	
	Electrotechnical products - Determination of levels of	
	six regulated substances (lead, mercury, cadmium,	
	hexavalent chromium, polybrominated biphenyls,	
IEC 62321:2008	polybrominated diphenyl ethers)	5 mg/kg
	Annex C (Informative) Determination of hexavalent	
	chromium (Cr(VI)) in polymers and electronics by the	
	colorimetric method	
	전기전자제품 - 6가지 규제물질(납, 수은, 카드뮴,	
KSC IEC 62321:2009	6가 크로뮴, PBBs, PBDEs)의 함량 측정	1 mallea
	7 CV-AAS, AFS, ICP-OES/MS에 의한 고분자 중 수	4 mg/kg
	은 측정방법	
	전기전자제품 - 6가지 규제물질(납, 수은, 카드뮴,	
KSC IEC 62321:2009	6가 크로뮴, PBBs, PBDEs)의 함량 측정	10 mg/kg
	8 ICP-OES/MS 및 AAS에 의한 고분자 재료 중 납, 카드뮴 정량방법	, v



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2.025 기타환경(계속)

규격번호	규격명	시혐범위 및 검출한계
KSC IEC 62321:2009	전기전자제품 - 6가지 규제물질(납, 수은, 카드뮴, 6가 크로뮴, PBBs, PBDEs)의 함량 측정 부속서 A(참고) 고분자에서 GC-MS를 이용한 PBB, PBDE 정량	2 mg/kg
KSC IEC 62321:2009	전기전자제품 - 6가지 규제물질(납, 수은, 카드뮴, 6가 크로뮴, PBBs, PBDEs)의 함량 측정 부속서 C(참고) 비색법에 의한 고분자와 전자제품 에서의 6가 크로뮴의 검출	5 mg/kg
KS M 0180:2009	산화 열 가수분해 후 이온 크로마토그래프 검출에 의한 할로겐(F, Cl, Br) 및 황의 시험방법 (할로겐(F, Cl, Br))	Cl: 3.2 mg/kg Br: 3.5 mg/kg F: 2.6 mg/kg

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CERTIFICATE OF ACCREDITATION

Name of Laboratory: LG Chem Ltd./ Research Park

Representative: Bahn-suk Kim

Address of Headquarters: 20, Yeouido-dong, Yeongdeungpo-gu, Seoul, Korea

Address of Laboratory: 104-1, Moonji-dong, Yuseong-gu, Daejeon, Korea

Duration: June 9, 2010 ~ June 8, 2014

Scope of Accreditation (Scope of Accreditation is described in the accompanying Annex)

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025: 2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 8 January 2009).

August 10, 2011

Administrator,

Huh. Kud

Korea Laboratory Accreditation Scheme(KOLAS)



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2. Chemical Test

2.016 Other Petroleum Products (Plastic)

Test method	Standard designation	Test range or Limits of detection
BS EN 1122 : 2001 (ICP-OES)	Plastics - Determination of cadmium - wet decomposition method / Method B	2 mg/kg
KOI-0024-0k (In-house method in compliance with IEC 62321 Ed 1 (111/54/CDV):2006 and EPA 3052:1996)	Determination of Lead(Pb) and Hexavalent Chromium(Cr(VI)) in Plastic	Pb : 5 mg/kg Cr : 2 mg/kg
KOI-0025-0k (In-house method in compliance with EPA 7473:2007)	Determination of Mercury(Hg) in Plastic	1 mg/kg
KOI-0026-0k (In-house method in compliance with IEC 62321 Ed 1 (111/54/CDV):2006 and EPA 3550B:1996)	Determination of PBB/PBDE in Plastic	5 mg/kg



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2.025 Other Environment

Test method	Standard designation	Test range or Limits of detection
	Electrotechnical products - Determination of	
	levels of six regulated substances (lead,	
	mercury, cadmium, hexavalent chromium,	
IEC 62321:2008	polybrominated biphenyls, polybrominated	4 mg/kg
	diphenyl ethers)	
	7 Determination of mercury in polymers by	
	CV-AAS, CVAFS,ICP-OES and ICP-MS	
	Electrotechnical products - Determination of	
	levels of six regulated substances (lead,	
	mercury, cadmium, hexavalent chromium,	
IEC 62321:2008	polybrominated biphenyls, polybrominated	10 mg/kg
	diphenyl ethers)	
	8 Determination of lead and cadmium in	
	polymers by ICP-OES,ICP-MS and AAS	
	Electrotechnical products - Determination of	2 mg/kg
	levels of six regulated substances (lead,	
	mercury, cadmium, hexavalent chromium,	
IEC 62321:2008	polybrominated biphenyls, polybrominated	
	diphenyl ethers)	
	Annex A (informative) Determination of	
	PBB and PBDE in polymers by GC-MS	
IEC 62321:2008	Electrotechnical products - Determination of	
	levels of six regulated substances (lead,	5 mg/kg
	mercury, cadmium, hexavalent chromium,	
	polybrominated biphenyls, polybrominated	
	diphenyl ethers)	
	Annex C (Informative) Determination of	
	hexavalent chromium (Cr(VI)) in polymers	
	and electronics by the colorimetric method	



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2.025 Other Environment(Cont.)

Test method	Standard designation	Test range or Limits of detection
KSC IEC 62321:2009	Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) 7 Determination of mercury in polymers by CV-AAS, CVAFS,ICP-OES and ICP-MS	4 mg/kg
KSC IEC 62321:2009	Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) 8 Determination of lead and cadmium in polymers by ICP-OES,ICP-MS and AAS	10 mg/kg
KSC IEC 62321:2009	Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) Annex A (informative) Determination of PBB and PBDE in polymers by GC-MS	2 mg/kg
KSC IEC 62321:2009	Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers) Annex C (Informative) Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method	5 mg/kg
KS M 0180:2009	Standard test method for halogen(F, Cl, Br) and sulfur content by oxidative pyrohydrolytic combustion followed by ion chromatography detection (Combustion ion chromatography-CIC) (Halogen F, Cl, Br)	Cl: 3.2 mg/kg Br: 3.5 mg/kg F: 2.6 mg/kg

End.