

Report No.: CTT131212531EN

Date: Dec. 20, 2013

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The following merchandise was (were) submitted and identified by client as:

Sample Name: REFLECTOR COATING TYPE LED PLCC TYPE

Sample Received Date: Dec. 17, 2013

Completed Date: Dec. 20, 2013

Test Method(s) and Equipment(s):

Test Item(s)	Test Method(s)	Equipment(s)
Lead(Pb)/Cadmium(Cd)	IEC 62321: 2008	ICP-AES/AAS
Mercury(Hg)	IEC 62321: 2008	ICP-AES
Hexavalent Chromium(Cr ⁵⁺)	IEC 62321: 2008	UV-Vis
PBBs & PBDEs	IEC 62321: 2008	GC-MS
Phthalates(DBP, BBP, DEHP)	CPSC-CH-C1001-09.3	GC-MS
Hexabromocyclododecane (HBCDD) and diastereoisomers (α -HBCDD, β -HBCDD, γ -HBCDD)	Reference to US EPA3550C:2007	GC-MS

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of CTT



Hill Lee / Technical Manager

Consumer Testing Technology Co., Ltd.

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Test Result(s): Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr⁶⁺)

Test Item(s)			Pb	Cd	Hg	Cr ⁶⁺
Material No.	Description	Location	Result(ppm)			
1	Light yellow plastic with white plastic	Body	N.D.	N.D.	N.D.	N.D.

- Note:**
1. ppm = part per million (mg/kg).
 2. N.D. = Not Detected (<RL).
 3. RL (Report Limit) = 2ppm.

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Test Result(s): PBBs & PBDEs

Material No.	Description	Location
1	Light yellow plastic with white plastic	Body

Material No.	Test Item(s)	Result (ppm)	
1	PBBs	--	SUM
	Monobromobiphenyl	N.D.	N.D.
	Dibromobiphenyl	N.D.	
	Tribromobiphenyl	N.D.	
	Tetrabromobiphenyl	N.D.	
	Pentabromobiphenyl	N.D.	
	Hexabromobiphenyl	N.D.	
	Heptabromobiphenyl	N.D.	
	Octabromobiphenyl	N.D.	
	Nonabromobiphenyl	N.D.	
	Decabromobiphenyl	N.D.	
	PBDEs	--	SUM
	Monobromodiphenylether	N.D.	N.D.
	Dibromodiphenylether	N.D.	
	Tribromodiphenylether	N.D.	
	Tetrabromodiphenylether	N.D.	
	Pentabromodiphenylether	N.D.	
	Hexabromodiphenylether	N.D.	
	Heptabromodiphenylether	N.D.	
	Octabromodiphenylether	N.D.	
	Nonabromodiphenylether	N.D.	
	Decabromodiphenylether	N.D.	

- Note:**
1. ppm = part per million (mg/kg).
 2. N.D. = Not Detected (< RL).
 3. RL (Report Limit) = 5ppm.

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Test Result(s):

Phthalates

Material No.	Description	Location
1	Light yellow plastic with white plastic	Body

Substances	DBP	BBP	DEHP
CAS No.	84-74-2	85-68-7	117-81-7
RL (ppm)	30	30	30
Material No.	Result (ppm)		
1	N.D.	N.D.	N.D.

- Note:**
1. ppm = part per million (mg/kg).
 2. N.D. = Not Detected (< RL).
 3. RL = Report Limit.
 4. The test item is except the scope of 2011/65/EU.

Hexabromocyclododecane (HBCDD) and diastereoisomers (α -HBCDD, β -HBCDD, γ -HBCDD)

Material No.	Description	Location	Result (ppm)
1	Light yellow plastic with white plastic	Body	N.D.

- Note:**
1. ppm = part per million (mg/kg).
 2. N.D. = Not Detected (< RL).
 3. RL (Report Limit) = 50ppm.
 4. The test item is except the scope of 2011/65/EU.

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Test Report

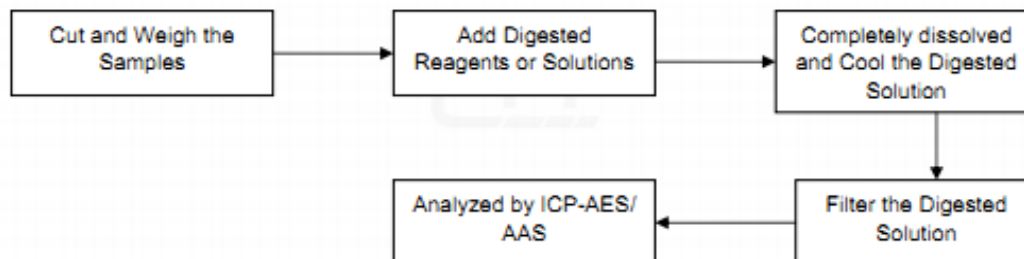
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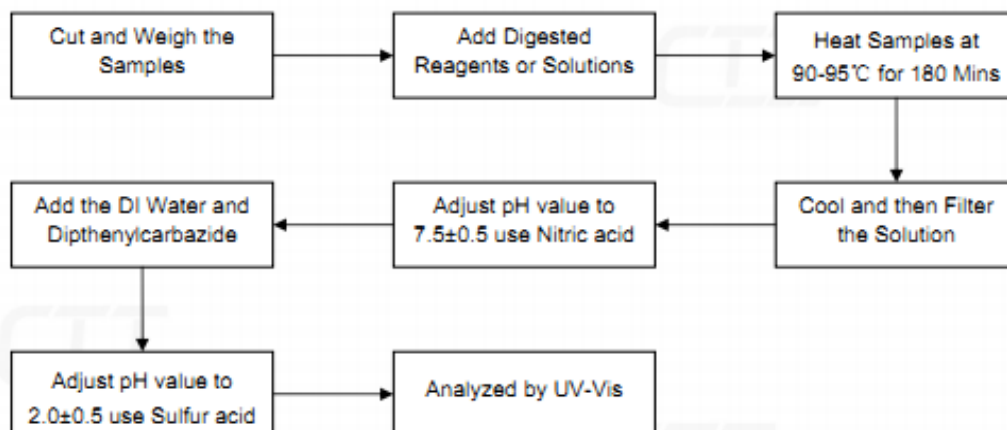
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Test Process Flow:

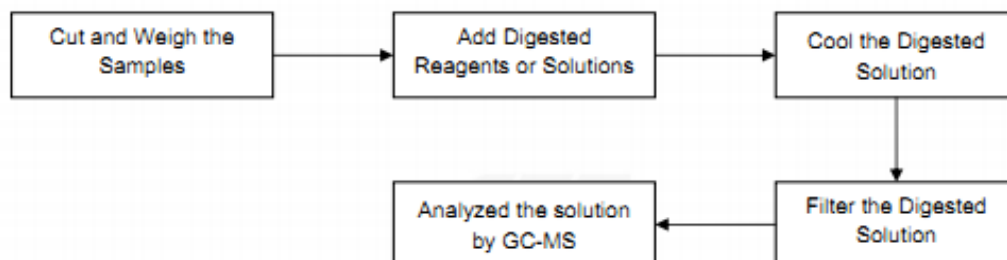
1. Lead, Cadmium, Mercury



2. Hexavalent Chromium



3. PBBs & PBDEs and Phthalates



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Test Process Flow:

4. Hexabromocyclododecane (HBCDD)

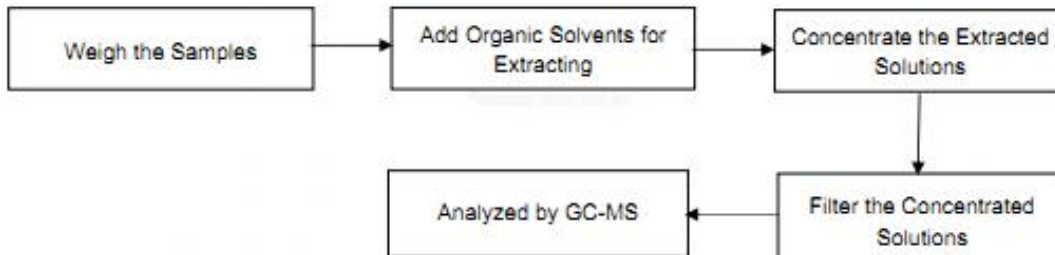


Photo of Sample:



End of Report

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