



Test Report

Report No.: GZ14012802EN

Date: 2014-01-28

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Applicant : CiXi Enyoo Optronics&Appliance Factory
No.60 Ring Road West, Guanhaiwei Town, CiXi, Zhejiang, China

Manufacturer : CiXi Enyoo Optronics&Appliance Factory
No.60 Ring Road West, Guanhaiwei Town, CiXi, Zhejiang, China

Sample Name : Spray Mop

Tested Model : PT-02

Model/Type reference : PT-01,PT-05

Sample Receiving date: : 2014-01-28

Test period : 2014-01-28 –2014-01-28

Test Requirement : As requested by client, determination of Lead(Pb), Cadmium(Cd), Mercury (Hg), chromium(Cr) and Bromine(Br) elements content in the submitted sample by XRF spectroscopy according to EC Directive 2011/65/EU—The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

Test method : Chapter 6 of IEC 62321:2008
Screening by X-ray fluorescence spectrometry (XRF).

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

Authorized signature

Lab Manager: Gavin Zhou



2014-01-28

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Result Summary:

No.	Part Description	Test Item				
		Pb (mg/kg)	Cd (mg/kg)	Hg (mg/kg)	Cr (mg/kg)	Br (mg/kg)
Tested components of Model PT-02						
1	Gray plastic (handle)	BL	BL	BL	BL	IN
2	Metal pole	BL	BL	BL	BL	---
3	Sponge casing	BL	BL	BL	BL	BL
4	Silvery metal	BL	BL	BL	BL	---
5	Metal strip	BL	BL	BL	BL	---
6	Silicone ring	BL	BL	BL	BL	BL
7	Red plastic	BL	BL	BL	BL	BL
8	Silicone tube	BL	BL	BL	BL	BL
9	Gray plastic shell	BL	BL	BL	BL	IN
10	Brown plastic	BL	BL	BL	BL	BL
11	White plastic	BL	BL	BL	BL	BL
12	Spring	BL	BL	BL	BL	---
13	Red plastic	BL	BL	BL	BL	BL
14	Gray plastic	BL	BL	BL	BL	IN
15	Black magic tape	BL	BL	BL	BL	BL
16	White lint	BL	BL	BL	BL	BL
17	Red sewing thread	BL	BL	BL	BL	BL
18	Red lint	BL	BL	BL	BL	BL
Tested components of Model PT-01 and PT-5 different to Model PT-02						
19	White plastic	BL	BL	BL	BL	BL
20	Metal gasket	BL	BL	BL	BL	---

Remark:

(^1) "----"= Not Applicable;

(^2) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

(^3) The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of non-uniformity composition.

(^4) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Pb, Cd, Hg), UV-VIS (for Cr(VI)) and GC/MSD (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321:2008.

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Attached table 1, XRF screening limits in mg/kg for regulated elements in various matrices:

Element	Polymer Materials	Metallic Materials	Electronics
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (250+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note:

- ① BL "below limit" = the result less than the limit.
- ② OL "over limit" = the result greater than the limit.
- ③ IN = inconclusive, the region where need further chemical testing by ICP-OES (for Pb、Cd、Hg), UV-VIS (for Cr(VI)) and GC/MSD (for PBBs, PBDEs).
- ④ 3σ = Repeability of the analyser at the action level.
- ⑤ LOD = Limit of detection.
- ⑥ "--" = Not Regulated.

(^5) The Limits of Directive 2011/65/EU.

Parameter:	Unit	Limit
Lead (Pb)	mg/kg	1000
Cadmium (Cd)	mg/kg	100
Mercury (Hg)	mg/kg	1000
Chromium VI (Cr VI)	mg/kg	1000
Group PBBs	mg/kg	1000
Group PBDEs	mg/kg	1000

Important: The limit values apply to each individual homogenous material.

CiXi Enyoo Optronics&Appliance Factory declare that:

Model PT-01,PT-05 and model PT-02 are the same serials, the different components see material No.19 to No.20, other components were made by the same raw material but different in shapes and sizes.

Ningbo Bontek Compliance Testing Laboratory Co., Ltd. will not be responsible for this statement.

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Sample photos:



Test item: Spray Mop

Tested Model: PT-02



Test item: Spray Mop

Additional Model: PT-01

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Test item: Spray Mop
Additional Model: PT-05



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GIG authenticate the photo on original report only

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

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