

TESTING LABORATORY

Nr

049/16

Date of Edition

2016-03-01

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Applicant

BISELARTE – Sociedade de Vidros, Lda.
Zona Industrial de Oiã – Apartado 100
3770-908 – OIÃ - PORTUGAL

Date of Entry

2016-02-12

Appliance / Product Tested

Nr of Samples

Designation: Fixed luminaire - Bathroom mirror.
Manufacturer/Trademark ..: XPCS
Reference: ANAYA 1200x700
Ratings: 230V; 50Hz; 6,42W LED + 1x21W G5; IP44; Class II, 24W (heating)
Observations: ----

1

Manufacturer / Representative

BISELARTE – Sociedade de Vidros, Lda.
Zona Industrial de Oiã – Apartado 100
3770-908 – OIÃ - PORTUGAL

Standards / Reference Documents

EN 62321 (2013)

Type / Scope of Test

Tests to check compliance of used materials according to specified reference documents by X-ray fluorescent (XRF) spectrometry executed with NITON trademark equipment type reference XLt 797Y.

Test Result

The test results are described in the following pages.

Bathroom mirror family with the same components

ANAYA 1000x700

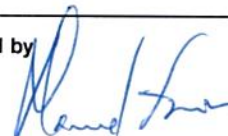
Test Performed by


João Lopes
(Laboratory Technical)

Date

2016-03-01

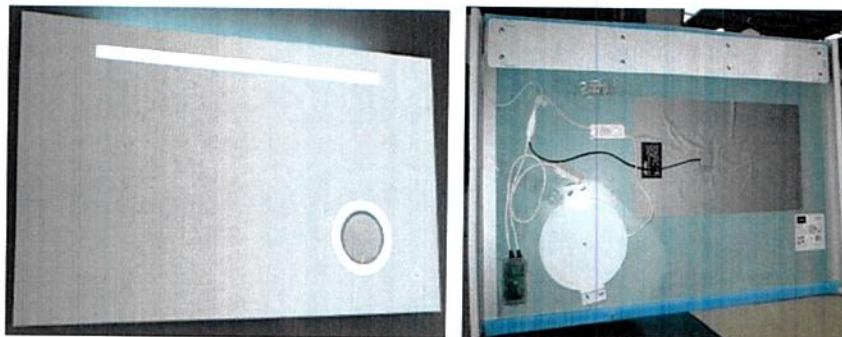
Approved by


Manuel Farias
(Executive Director)

Date

2016-03-01

Photographs:



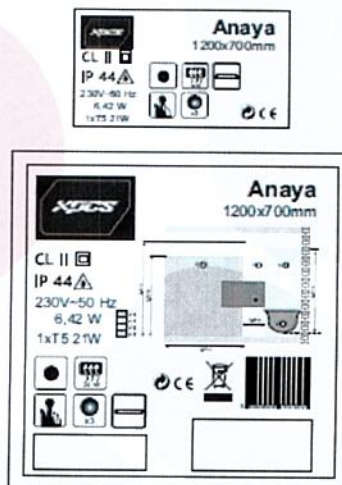
General remarks:

Throughout this report a comma is used as the decimal separator.

Test case verdicts:

- Test with non conclusive results : Inconclusive
- Test item does meet the requirement : Pass
- Test item does not meet the requirement : Fail

Marking plate:



Measured values are as follows:

Metal parts

Item	Corner support plate	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Plate (7688)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass

Terminal Block

Item	Plastic housing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Black rubber	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	70	2	N/D	N/D	4	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Screw	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	457	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

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Insulating fittings

Item	White Thermo Shrink Tube	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	90	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Self Adhesive Fixing Cable	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	White cable ties	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Anchorage cord

Item	Anchorage cord	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	294	N/D	353	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Terminal splice

Item	Red cover	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

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Item	Coupler	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	294	N/D	353	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Led Strip

Item	Led Strip	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	795	8	N/D	N/D	23	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Insulation of wiring (red)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	12	42	N/D	N/D	4	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Insulation of wiring (black)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	43	31	N/D	N/D	8	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Cooper of wiring	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	127	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Silicon	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	White thermoshrinkable sleeve	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	21	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Black internal cable

Item	External sheathing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/A	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (brown)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (blue)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Copper	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	321	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Converter

Item	Plastic housing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Print circuit board	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	258	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Resistances	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	422	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Terminals	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	621	3	N/D	74	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Electrolytic capacitors	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Polyester capacitors	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Coils	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	375	31	N/D	N/D	182	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Ceramic capacitors	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	182	35	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

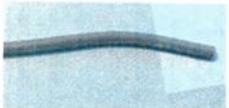
Item	Diodes	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	68	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Integrated circuit	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/A	N/A	19	52	36	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Transistors	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	606	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

white internal cable

Item	External sheathing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/A	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (brown)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (blue)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Copper	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	321	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Fluorescent lamp kit

Item	Cover lamp	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	138	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Top	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Connector pins	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Lampholder	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Lampholder contacts	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (brown)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (blue)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Cooper	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<50	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (white)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Enclosure	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Reflective tape of the housing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	360	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	PCB	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Cooper of with wiring	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	<50	<50	<50	<100	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Electronic Switch

Item	Plastic housing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Screw	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Cable glands	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	PCB	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Components	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	External sheathing	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/A	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (brown)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Basic insulation of conductors (blue)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Copper	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	321	N/D	N/D	N/D	N/D	Pass
	Maximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Heater

Item	Transparent film	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Supplementary insulation of conductors (black)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	650	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Supplementary insulation of conductors (blue)	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	672	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Copper of conductors	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Tape thermo formable	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	9	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

Item	Film with heating element	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	N/D	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

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Item	Basic insulation of conductors	Lead (Pd)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr) (1)	Bromine (Br) (2)	Result
	Measured value (ppm)	795	N/D	N/D	N/D	N/D	Pass
	Máximum Value (ppm) +30%	1 000	100	1 000	1 000	1 000	

N/D – No detected

- 1) Measured values represents existing total chromium.
- 2) Measured values represents the total polybrominated materials.