ICP Test Report Certification Packet

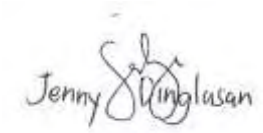
Company name: Littelfuse, Inc.

Product Series: Power-T Class T Fuse

Product #: JLLN SERIES

Issue Date: July 13, 2010

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes.
In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.



Issued by: _____
<Global EHS Coordinator>

(1) Parts, sub-materials and unit parts

This document covers the Power-T Class T Fuse RoHS-Compliant series products manufactured by Littelfuse, Inc.

＜ Raw Materials Used

Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identifed in Table 1

Remarks :

Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	692264	Solder Preform/Tin Pellet	3-8
2	927-292	Solder Preform	9-14
3	882-800	Lead	15-18
4	090190	Filler	19-34
5	090169	Filler	35-43
6	048xxx	Brass Disc	44-46
7	898-013-001	Cap	47-50
8	909-5xx	Body	51-58
9	685xxx	Wire-Pure Ag	59-65

Report No.: MX10-0726-MOD – Serie KLKD
Date : 2010-05-07

RESULTS REPORT

INTERTEK TESTING SERVICES DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO: Littelfuse, S.A. de C.V.
Blvd. Fausto Z Mtz. 1800, Col. Magisterio Secc. 38, Piedras Negras, Coahuila, C.P. 26070

ATTENTION: Ing. Mario Alberto Falcón

Intertek Testing Services de México, S.A. de C.V.
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

Report No.: MX10-0726-MOD – Serie KLKD
Date : 2010-05-07

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z Mtz. 1800, Col. Magisterio Secc. 38, Piedras Negras, Coahuila, C.P. 26070

Ing. Mario Alberto Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	NP
Item No.	28) Serie KLKD/JLLS Solder preform 927-296 29) Serie KLKD Solder overlay 692264

Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-03-25
Testing period	2010-03-29 to 2010-04-23

****

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

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CONCLUSION

Testing item	Conclusion	Failed component	Failed result
Serie KLKD/JLLS Solder preform 927-296	Pass See Result summary	---	---
Serie KLKD Solder overlay 692264	Pass See Result summary	---	---

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C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

Report No.: MX10-0726-MOD – Serie KLKD
Date : 2010-05-07

TEST CONDUCTED

One (1) group of submitted samples said to be :

28) Serie KLKD/JLLS Solder preform 927-296

29) Serie KLKD Solder overlay 692264

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)		Limit
	(28)	(29)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Lead (Pb) content	111,1	142,1	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	0,1% (1000 ppm)

ppm = parts per million based on dry weight of sample.
µg/cm^2 = microgram per square centimeter.
mg/kg WITH 50cm^2 = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :
For Intertek

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

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003

NOTE : DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 726-28 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 726-29 WERE TESTED TOGETHER.

Test method :

Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2009-3p63	2010-04-06	MELAJLHS, MTCM	2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
28	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	11,36
29	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	9,09

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No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
28	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	2,273
29	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	1,818

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No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
28	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0781
29	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0794

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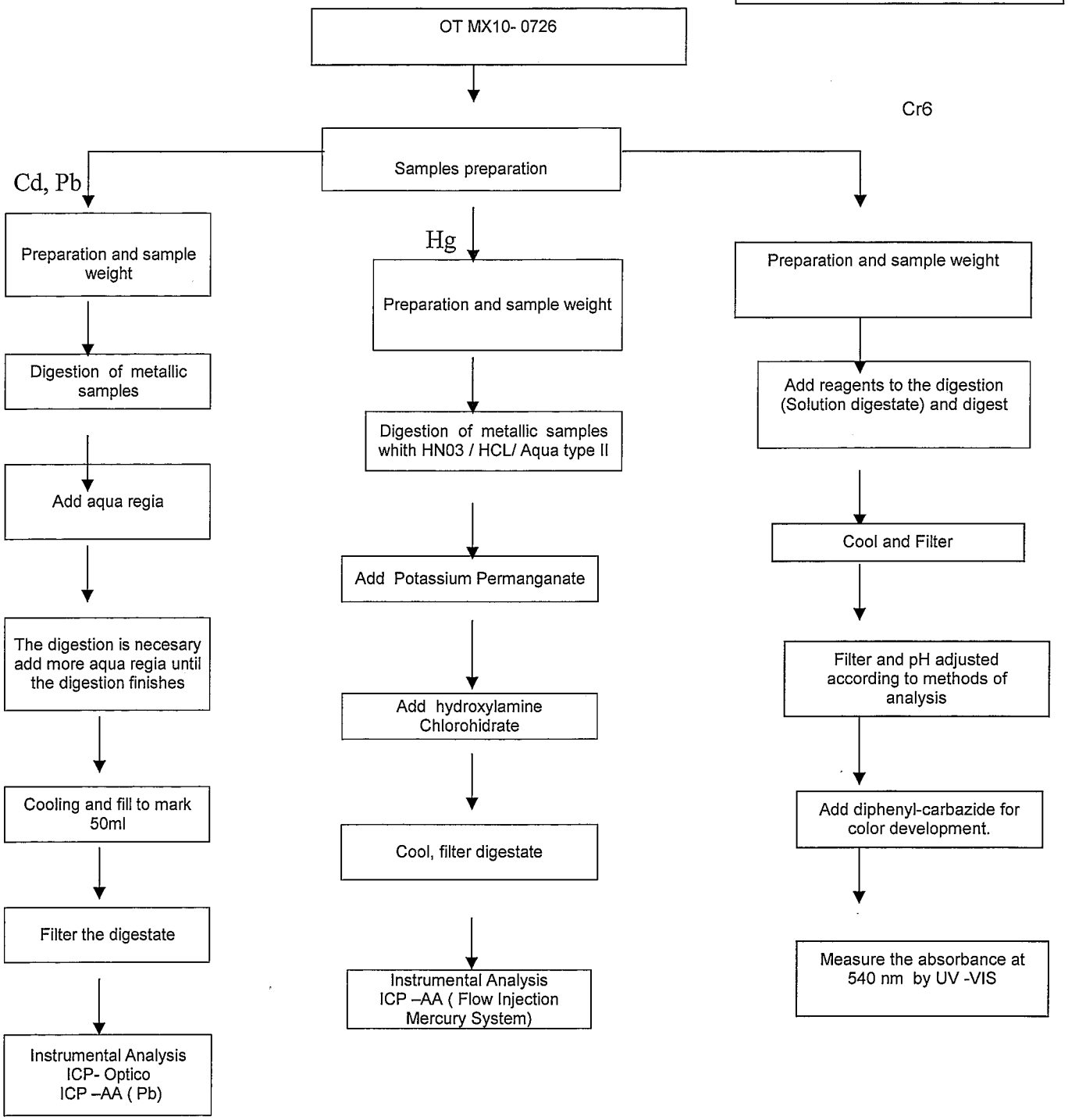
Report No.: MX10-0726
Date: 2010-05-05

Metallic samples
Flow char for samples: 28, 29



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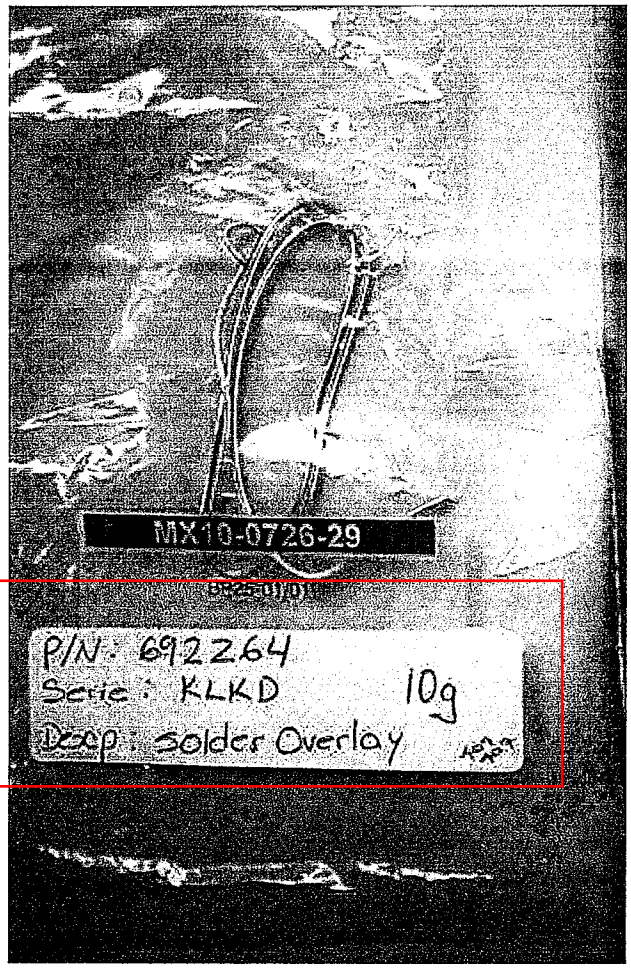
Report No.: MX10-0726
Date: 2010-05-07

MX10-0726-29



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Report No.: MX10-0867-Serie TLS/KLKR
Date : 2010-05-31

RESULTS REPORT

INTERTEK TESTING SERVICES DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO: Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Mtz. 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila, 26070

ATTENTION: Ing. Mario Falcón

Report No.: MX10-0867-Serie TLS/KLKR
Date : 2010-05-31

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Mtz. 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila, 26070
Ing. Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	NP
Item No.	11) No. Parte 927-292 Serie TLS/KLKR
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-04-13
Testing period	2010-04-19 to 2009-05-22

****

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.
****

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
11	No. Parte 927-292 Serie TLS/KLKR	Pass See Result summary	---	---

****

Intertek Testing Services de México, S.A. de C.V.
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

Report No.: MX10-0867-Serie TLS/KLKR
Date : 2010-05-31

TEST CONDUCTED

One (1) group of submitted samples said to be :

11) No. Parte 927-292 Serie TLS/KLKR

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm) (11)	Limit
Cadmium (Cd) content	ND	0,01% (100 ppm)
Lead (Pb) content	190,0	0,1% (1000 ppm)
Mercury (Hg) content	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	0,1% (1000 ppm)

ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :
For Intertek

Irma López M
coord de área

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

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NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-11 WERE TESTED TOGETHER.

Test method :

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	BEQ160p5b	2010-04-24	MELA	1,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
11	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	5,319

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
11	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	2,128

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
11	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0725

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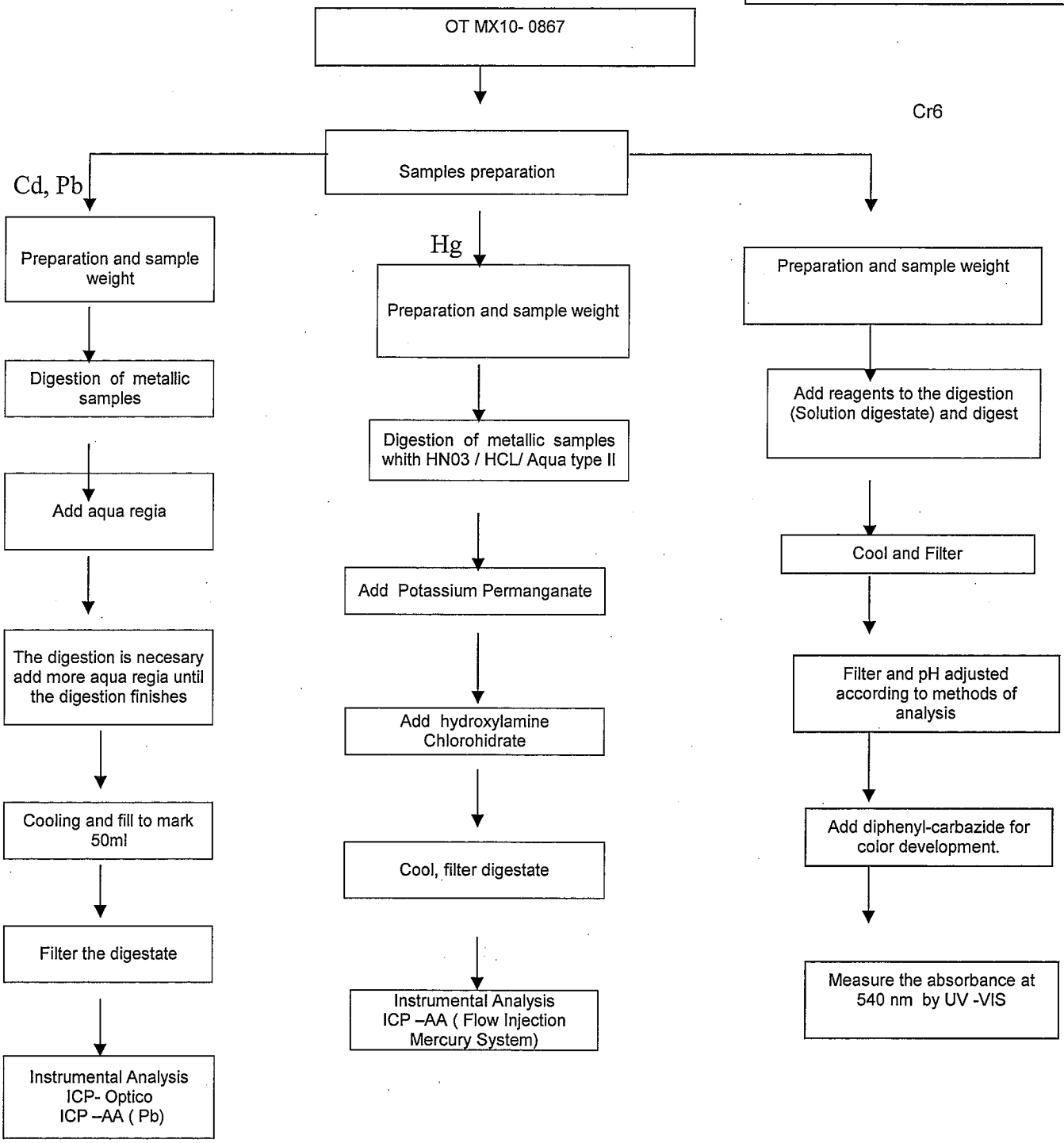
www.intertek.com

Report No.: MX10-0867
Date: 2010-05-31

Metallic samples
Flow chart for samples: 11



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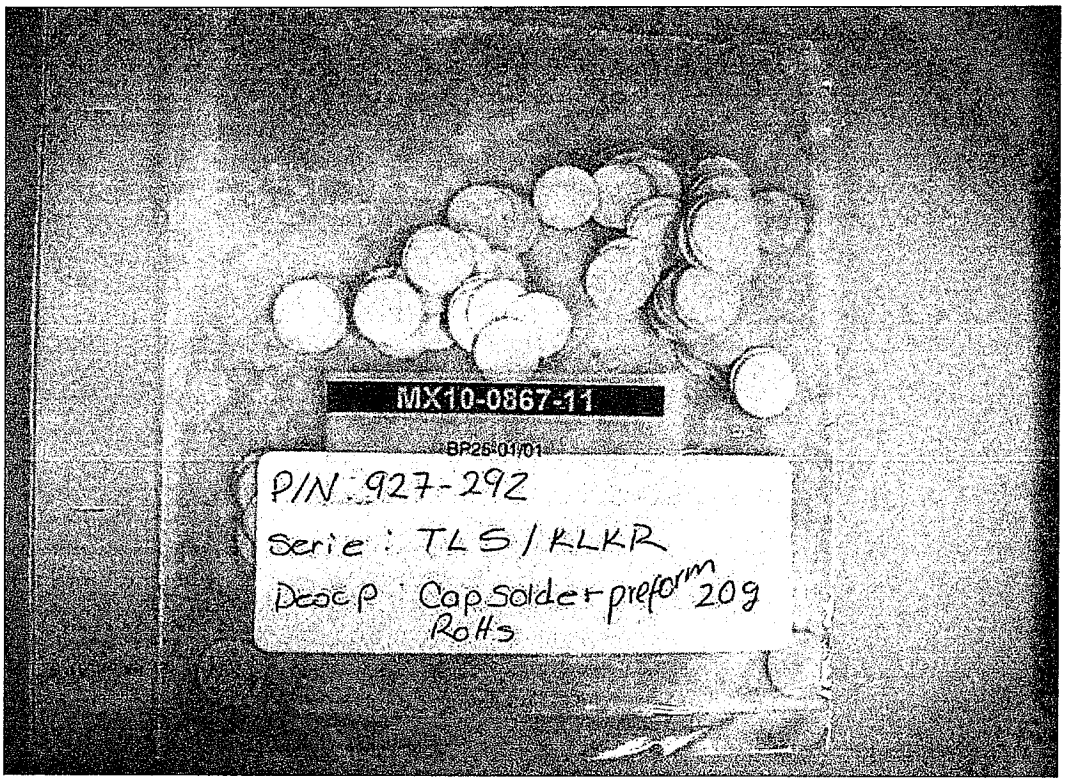
1ª. Emisión Junio 2005, 1° Revisión Junio 26, 2009. ILTA/003/GENS-F8

Report No.: MX10-0867
Date: 2010-05-31

MX10-0867-11



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Blvd. Manuel Avila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax 55407863
www.intertek.com

Test Report

No. : CE/2007/60659 Date : 2007/06/07

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	LEAD
Style/Item No.	:	882-800
Facility	:	POWERGARD
Sample Receiving Date	:	2007/06/04
Testing Period	:	2007/06/04 TO 2007/06/07

==========

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.

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

Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	---	2
Lead (Pb)	(2)	13	---	2
Mercury (Hg)	(3)	n.d.	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	---	Negative	See Note 5

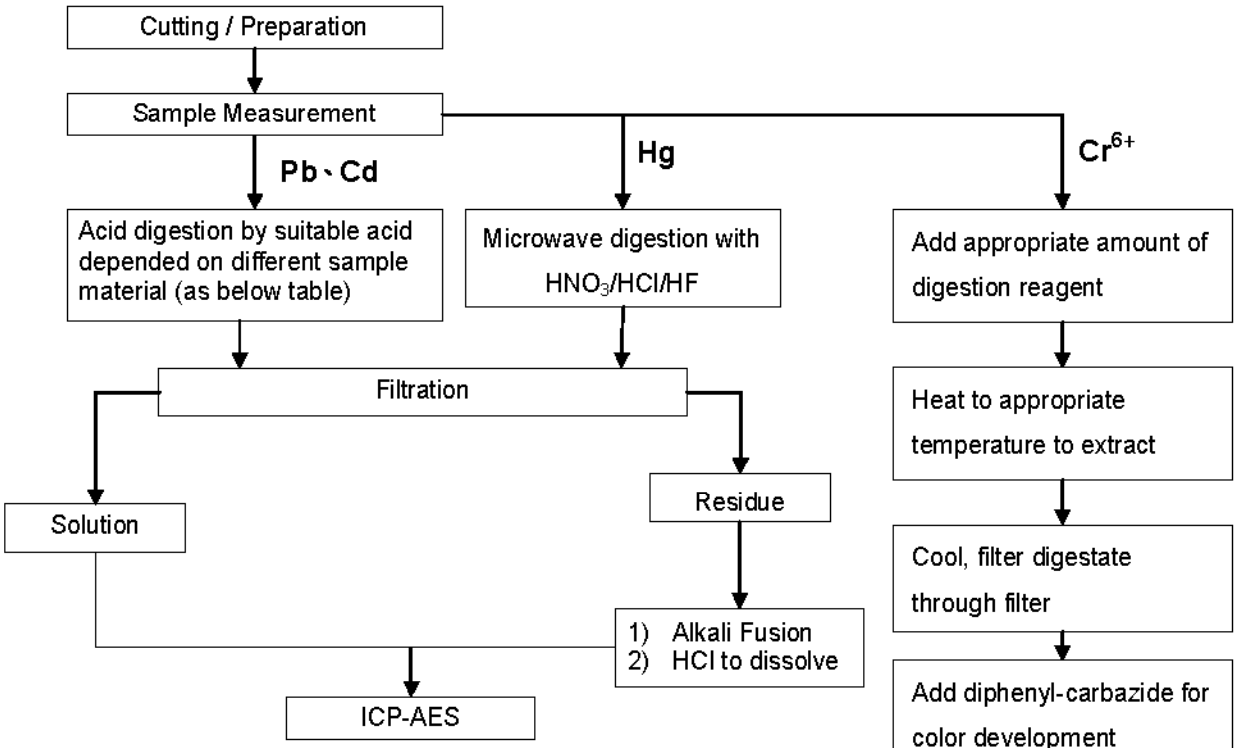
TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL
NO.2 : PLATING LAYER OF SILVER COLORED METAL

Note : 1. mg/kg = ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. "---" = Not Conducted
5. Spot-test:
Negative = Absence of Cr(VI) coating / surface layer,
Positive = Presence of Cr(VI) coating / surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
Boiling-water-extraction:
Negative = Absence of Cr(VI) coating / surface layer.
Positive = Presence of Cr(VI) coating / surface layer;
the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 sample surface area.

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
2) Name of the person who made measurement: Troy Chang
3) Name of the person in charge of measurement: Daniel Yeh



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO_3, HCl, HF, H_2O_2
Glass	HNO_3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO_3
Plastic	H_2SO_4, H_2O_2, HNO_3, HCl
Others	Any acid to total digestion

LITTELFUSE INC.
800 E. NORTHWEST HWY. DES PLAINES, IL 60016

** End of Report **

Report No.: MX10-0867
Date : 2010-05-31

RESULTS REPORT

INTERTEK TESTING SERVICES DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO: Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Mtz. 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila, 26070

ATTENTION: Ing. Mario Falcón

Report No. MX10-0867
Date : 2010-05-31

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Mtz. 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila, 26070
Ing. Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	NP
Item No.	1) No. Parte 084215 Serie 155 2) No. Parte 878-112 Serie 150 3) No. Parte 878-114 Serie 150 4) No. Parte 084113 Serie 155 5) No. Parte 01500284Z Serie FHM and 153 6) No. Parte 878-113 Serie 155 7) No. Parte L600601C Descrip: ACS 600V Class 8) No. Parte 155004-4 Serie 155XXXX2XA 9) L60060C 10) No. Parte 909-410 Serie FLM 11) No. Parte 927-292 Serie TLS/KLKR 12) No. Parte 079040 Serie FLM 13) No. Parte 01000054Z Serie 100 14) No. Parte 01000057Z Serie 100 15) No. Parte 927-027 Serie FLM/KLKR 16) No. Parte 155004-3 Serie 155 XXXX2XA 17) No. Parte 01000058Z Serie 100 18) No. Parte 079055 Serie BLN 19) No. Parte 923-089 Serie CCMR/KLKR/FLQSLC 20) No. Parte 01000056Z Serie 100 21) No. Parte 087244 Serie CCMP,FLQ,KLDR 22) No. Parte 087293 Serie FLQ 23) No. Parte 090190 Serie KLKR/FLQ/APT
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-04-13
Testing period	2010-04-19 to 2009-05-22

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Report No. MX10-0867
Date : 2010-05-31

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

****

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
1	No. Parte 084215 Serie 155	Pass See Result summary	---	---
2	No. Parte 878-112 Serie 150	Pass See Result summary	---	---
3	No. Parte 878-114 Serie 150	Pass See Result summary	---	---
4	No. Parte 084113 Serie 155	Pass See Result summary	---	---
5	No. Parte 01500284Z Serie FHM and 153	Pass See Result summary	---	---
6	No. Parte 878-113 Serie 155	Pass See Result summary	---	---
7 (a), (b), (c), (e), (f)	No. Parte L600601C Descrip: ACS 600V Class	Pass See Result summary	---	---
(7d)	III tornillo 2c (tornillo grueso metálico con aluminio	Failed See Result summary	Lead	2 897 mg/kg
8	No. Parte 155004-4 Serie 155XXXX2XA	Pass See Result summary	---	---
9	L60060C	Pass See Result summary	---	---
10	No. Parte 909-410 Serie FLM	Pass See Result summary	---	---
11	No. Parte 927-292 Serie TLS/KLKR	Pass See Result summary	---	---
12	No. Parte 079040 Serie FLM	Pass See Result summary	---	---
13	No. Parte 01000054Z Serie 100	Pass See Result summary	---	---
14	No. Parte 01000057Z Serie 100	Pass See Result summary	---	---
15	No. Parte 927-027 Serie FLM/KLKR	Pass See Result summary	---	---

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CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
16	No. Parte 155004-3 Serie 155 XXXX2XA	Pass See Result summary	---	---
17	No. Parte 01000058Z Serie 100	Pass See Result summary	---	---
18	No. Parte 079055 Serie BLN	Pass See Result summary	---	---
19	No. Parte 923-089 Serie CCMR/KLKR/FLQSLC	Pass See Result summary	---	---
20	No. Parte 01000056Z Serie 100	Pass See Result summary	---	---
21	No. Parte 087244 Serie CCMP,FLQ,KLDR	Pass See Result summary	---	---
22	No. Parte 087293 Serie FLQ	Pass See Result summary	---	---
23	No. Parte 090190 Serie KLKR/FLQ/APT	Pass See Result summary	---	---

Report No. : MX10-0867
Date : 2010-05-31

TEST CONDUCTED

One (1) group of submitted samples said to be :

1) No. Parte 084215 Serie 155
2) No. Parte 878-112 Serie 150
3) No. Parte 878-114 Serie 150

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)						Limit
	(1a)	(1b)	(2a)	(2b)	(3a)	(3b)	
	Insulator	metal	Insulator	metal	Insulator	metal	
Cadmium (Cd) content	ND	ND	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	8,402	ND	9,026	ND	9,094	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	ND	0,2594	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	2,080	2,080	2,356	2,208	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	---	ND	---	ND	---	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	---	ND	---	ND	---	---
Dibromobiphenyl (DiBB)	ND	---	ND	---	ND	---	---
Tribromobiphenyl (TriBB)	ND	---	ND	---	ND	---	---
Tetrabromobiphenyl (TetraBB)	ND	---	ND	---	ND	---	---
Pentabromobiphenyl (PentaBB)	ND	---	ND	---	ND	---	---
Hexabromobiphenyl (HexaBB)	ND	---	ND	---	ND	---	---
Heptabromobiphenyl (HeptaBB)	ND	---	ND	---	ND	---	---
Octabromobiphenyl (OctaBB)	ND	---	ND	---	ND	---	---
Nonabromobiphenyl (NonaBB)	ND	---	ND	---	ND	---	---
Decabromobiphenyl (DecaBB)	ND	---	ND	---	ND	---	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	---	ND	---	ND	---	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	---	ND	---	ND	---	---
Dibromodiphenyl (DiBDE)	ND	---	ND	---	ND	---	---
Tribromodiphenyl (TriBDE)	ND	---	ND	---	ND	---	---
Tetrabromodiphenyl (TetraBDE)	ND	---	ND	---	ND	---	---
Pentabromodiphenyl (PentaBDE)	ND	---	ND	---	ND	---	---
Hexabromodiphenyl (HexaBDE)	ND	---	ND	---	ND	---	---
Heptabromodiphenyl (HeptaBDE)	ND	---	ND	---	ND	---	---
Octabromodiphenyl (OctaBDE)	ND	---	ND	---	ND	---	---
Nonabromodiphenyl (NonaBDE)	ND	---	ND	---	ND	---	---
Decabromodiphenyl (DecaBDE)	ND	---	ND	---	ND	---	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

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4) No. Parte 084113 Serie 155
5) No. Parte 01500284Z Serie FHM and 153
6) No. Parte 878-113 Serie 155

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)								Limit
	(4a)	(4b)	(5a) **	(5b)	(5c) **	(5d)	(6a)	(6b)	
	Insulator	metal	Insulator (Black plastic)	Wire (wire of copper)	Insulator (Black insulator)	Wire (metal part of the copper fuse)	Insulator	metal	
Cadmium (Cd) content	ND	ND	ND	ND	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	9,571	ND	8,970	ND	21,61	ND	9,199	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	2,182	ND	ND	ND (&)	ND	ND (&)	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	---	ND **				ND		0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	---	ND				ND		---
Dibromobiphenyl (DiBB)	ND	---	ND				ND		---
Tribromobiphenyl (TriBB)	ND	---	ND				ND		---
Tetrabromobiphenyl (TetraBB)	ND	---	ND				ND		---
Pentabromobiphenyl (PentaBB)	ND	---	ND				ND		---
Hexabromobiphenyl (HexaBB)	ND	---	ND				ND		---
Heptabromobiphenyl (HeptaBB)	ND	---	ND				ND		---
Octabromobiphenyl (OctaBB)	ND	---	ND				ND		---
Nonabromobiphenyl (NonaBB)	ND	---	ND				ND		---
Decabromobiphenyl (DecaBB)	ND	---	ND				ND		---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	---	ND				ND		0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	---	ND				ND		---
Dibromodiphenyl (DiBDE)	ND	---	ND				ND		---
Tribromodiphenyl (TriBDE)	ND	---	ND				ND		---
Tetrabromodiphenyl (TetraBDE)	ND	---	ND				ND		---
Pentabromodiphenyl (PentaBDE)	ND	---	ND				ND		---
Hexabromodiphenyl (HexaBDE)	ND	---	ND				ND		---
Heptabromodiphenyl (HeptaBDE)	ND	---	ND				ND		---
Octabromodiphenyl (OctaBDE)	ND	---	ND				ND		---
Nonabromodiphenyl (NonaBDE)	ND	---	ND				ND		---
Decabromodiphenyl (DecaBDE)	ND	---	ND				ND		---

(&) NOTE: Composite sample was analyzed.

TEST CONDUCTED

One (1) group of submitted samples said to be :

7) No. Parte L600601C Descrip: ACS 600V Class

Report No. MX10-0867
Date : 2010-05-31

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)						Limit
	(7a)	(7b)	(7c)	(7d)	(7e)	(7f)	
	Metal e (silver metal)	I metal b (silver-blue metal)	II Screw (small screw, silver metal)	III Screw (thickness screw metal)	IV Cube Metallic with aluminum)	Frame plastic	
Cadmium (Cd) content	ND	50,755	47,833	ND	ND	ND	0.01% (100 ppm)
Lead (Pb) content	18,22	ND	8,91	2897	8,363	ND	0.1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	ND	ND	0.1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND (&)					ND	0.1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	---	---	---	---	---	ND	0.1% (1000 ppm)
Monobromobiphenyl (MonoBB)	---	---	---	---	---	ND	---
Dibromobiphenyl (DiBB)	---	---	---	---	---	ND	---
Tribromobiphenyl (TriBB)	---	---	---	---	---	ND	---
Tetrabromobiphenyl (TetraBB)	---	---	---	---	---	ND	---
Pentabromobiphenyl (PentaBB)	---	---	---	---	---	ND	---
Hexabromobiphenyl (HexaBB)	---	---	---	---	---	ND	---
Heptabromobiphenyl (HeptaBB)	---	---	---	---	---	ND	---
Octabromobiphenyl (OctaBB)	---	---	---	---	---	ND	---
Nonabromobiphenyl (NonaBB)	---	---	---	---	---	ND	---
Decabromobiphenyl (DecaBB)	---	---	---	---	---	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	---	---	---	---	---	ND	0.1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	---	---	---	---	---	ND	---
Dibromodiphenyl (DiBDE)	---	---	---	---	---	ND	---
Tribromodiphenyl (TriBDE)	---	---	---	---	---	ND	---
Tetrabromodiphenyl (TetraBDE)	---	---	---	---	---	ND	---
Pentabromodiphenyl (PentaBDE)	---	---	---	---	---	ND	---
Hexabromodiphenyl (HexaBDE)	---	---	---	---	---	ND	---
Heptabromodiphenyl (HeptaBDE)	---	---	---	---	---	ND	---
Octabromodiphenyl (OctaBDE)	---	---	---	---	---	ND	---
Nonabromodiphenyl (NonaBDE)	---	---	---	---	---	ND	---
Decabromodiphenyl (DecaBDE)	---	---	---	---	---	ND	---

(&) NOTE: Composite sample was analyzed.

TEST CONDUCTED

One (1) group of submitted samples said to be :

8) No. Parte 155004-4 Serie 155XXXX2XA

9) L60060C

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10) No. Parte 909-410 Serie FLM

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)			Limit
	(8)	(9)	(10)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	ND	---
Dibromobiphenyl (DiBB)	ND	ND	ND	---
Tribromobiphenyl (TriBB)	ND	ND	ND	---
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	---
Pentabromobiphenyl (PentaBB)	ND	ND	ND	---
Hexabromobiphenyl (HexaBB)	ND	ND	ND	---
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	---
Octabromobiphenyl (OctaBB)	ND	ND	ND	---
Nonabromobiphenyl (NonaBB)	ND	ND	ND	---
Decabromobiphenyl (DecaBB)	ND	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	ND	ND	ND	---

TEST CONDUCTED

One (1) group of submitted samples said to be :

11) No. Parte 927-292 Serie TLS/KLKR

12) No. Parte 079040 Serie FLM

13) No. Parte 01000054Z Serie 100
14) No. Parte 01000057Z Serie 100
15) No. Parte 927-027 Serie FLM/KLKR

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)					Limit
	(11)	(12)	(13)	(14)	(15)	
Cadmium (Cd) content	ND	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	190,0	14,33	88,29	24,26	175,2	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	ND	0,1% (1000 ppm)

TEST CONDUCTED

One (1) group of submitted samples said to be :

16) No. Parte 155004-3 Serie 155 XXXX2XA
17) No. Parte 01000058Z Serie 100
18) No. Parte 079055 Serie BLN
19) No. Parte 923-089 Serie CCMR/KLKR/FLQSLC
20) No. Parte 01000056Z Serie 100

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)					Limit
	(16)	(17)	(18)	(19)	(20)	
Cadmium (Cd) content	49,54	ND	ND	5,39	ND	0,01% (100 ppm)
Lead (Pb) content	9,47	54,47	31,62	3149	61,02	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	2,912	2,648	ND	ND	2,408	

TEST CONDUCTED

One (1) group of submitted samples said to be :

21) No. Parte 087244 Serie CCMP,FLQ,KLDR
22) No. Parte 087293 Serie FLQ
23) No. Parte 090190 Serie KLKR/FLQ/APT

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

Intertek

Report No. MX10-0867
Date : 2010-05-31

TESTING ITEM	Ω RESULT (ppm)			Limit
	(21)	(22)	(23)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	2,144	2,152	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	ND	ND	---	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	ND	ND	---	---
Dibromobiphenyl (DiBB)	ND	ND	---	---
Tribromobiphenyl (TriBB)	ND	ND	---	---
Tetrabromobiphenyl (TetraBB)	ND	ND	---	---
Pentabromobiphenyl (PentaBB)	ND	ND	---	---
Hexabromobiphenyl (HexaBB)	ND	ND	---	---
Heptabromobiphenyl (HeptaBB)	ND	ND	---	---
Octabromobiphenyl (OctaBB)	ND	ND	---	---
Nonabromobiphenyl (NonaBB)	ND	ND	---	---
Decabromobiphenyl (DecaBB)	ND	ND	---	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	ND	ND	---	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	ND	ND	---	---
Dibromodiphenyl (DiBDE)	ND	ND	---	---
Tribromodiphenyl (TriBDE)	ND	ND	---	---
Tetrabromodiphenyl (TetraBDE)	ND	ND	---	---
Pentabromodiphenyl (PentaBDE)	ND	ND	---	---
Hexabromodiphenyl (HexaBDE)	ND	ND	---	---
Heptabromodiphenyl (HeptaBDE)	ND	ND	---	---
Octabromodiphenyl (OctaBDE)	ND	ND	---	---
Nonabromodiphenyl (NonaBDE)	ND	ND	---	---
Decabromodiphenyl (DecaBDE)	ND	ND	---	---

ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

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Report No. MX10-0867
Date : 2010-05-31

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :
For Intertek

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-1 WERE TESTED SEPARATELY.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-2 WERE TESTED SEPARATELY.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-3 WERE TESTED SEPARATELY.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-4 WERE TESTED SEPARATELY.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-5 WERE TESTED SEPARATELY.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-6 WERE TESTED SEPARATELY.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-7 WERE TESTED SEPARATELY.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-8 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-9 WERE TESTED TOGETHER.

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REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-10 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-11 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-12 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-13 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-14 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-15 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-16 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-17 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-18 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-19 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-20 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-21 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-22 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0867-23 WERE TESTED TOGETHER.

Test method :

Report No. MX10-0867
Date : 2010-05-31

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	BEQ160p5b	2010-04-24	MELA	2,0 / 1,0* (Sample 19)

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	POLYBROMINATED BIPHENYLS (PBBs)	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	2010-004440-PCL	2010-05-22	CONT	50
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	2010-004440-PCL	2010-05-22	CONT	50

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm

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Report No. MX10-0867
Date : 2010-05-31

1 (a)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,807
1 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	4,902
2 (a)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	5,0
2 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	4,808
3 (a)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,717
3 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	4,717
4 (a)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,717
4 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	4,902
5 (a)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	5,0
5 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	5,0
5 (c)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,630
5 (d)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	5,319
6 (a)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,808
6 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	5,0
7 (a)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-23	JMR,DCL	5,102
7 (b)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p47	2010-04-22	JMR,DCL	9,43
7 (c)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p47	2010-04-22	JMR,DCL	5,55
7 (d)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,462
7 (e)	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	0,887
7 (f)	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,808
8	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	5,102
9	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,90
10	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,464
11	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	5,319
12	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	4,808
13	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	5,435
14	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	4,098
15	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	5,0
16	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p47,48	2010-04-23	MARY,VLM	6,85
17	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	5,102
18	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	4,901
19	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	0,443
20	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	5,319
21	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,630
22	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	4,717
23	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p49	2010-04-22	JMR,DCL	5,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,92

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Report No. MX10-0867
Date : 2010-05-31

1 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,961
2 (a)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	2,0
2 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,92
3 (a)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,89
3 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,887
4 (a)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,89
4 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,961
5 (a)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	2,0
5 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	2,0
5 (c)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,85
5 (d)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	2,128
6 (a)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,923
6 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	2,0
7 (a)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-23	JMR,DCL	2,041
7 (b)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,886
7 (c)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 3010	MET2010-4p47	2010-04-22	JMR,DCL	1,111
7 (d)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	0,585
7 (e)	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	0,365
7 (f)	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,923
8	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	2,04
9	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,96
10	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,786
11	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	2,128
12	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	1,923
13	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47	2010-04-22	JMR,DCL	2,174
14	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	1,64
15	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	2,0
16	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p47,48	2010-04-23	MARY,VLM	1,37
17	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	2,04
18	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	1,96
19	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	0,178
20	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p47,48	2010-04-22	JMR,DCL	2,128
21	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,852
22	Cadmium(Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p51	2010-04-22	JMR,DCL	1,887
23	Cadmium(Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p49	2010-04-22	JMR,DCL	2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0806
1 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,082

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2 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0833
2 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0806
3 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0833
3 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0769
4 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0769
4 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0847
5 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0833
5 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0806
5 (c)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,082
5 (d)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0847
6 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0806
6 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,082
7 (a)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0806
7 (b)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0847
7 (c)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0556
7 (d)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0256
7 (e)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0633
7 (f)	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0806
8	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0833
9	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0794
10	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0806
11	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0725
12	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0735
13	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0833
14	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0781
15	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,082
16	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,082
17	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0746
18	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,082
19	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0088
20	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p44	2010-04-20	UBM	0,0806
21	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p54	2010-04-22	UBM	0,083
22	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p46	2010-04-20	UBM	0,0781
23	Mercury (Hg) content	With reference to USEPA 7471MOD, by EPA 7471	MET2010-4p50	2010-04-20	UBM	0,083

Report No.: MX10-0726-MOD – Serie KLDR
Date : 2010-05-07

RESULTS REPORT

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LABORATORIO CD. DE MEXICO

DELIVER TO: Littelfuse, S.A. de C.V.
Blvd. Fausto Z Mtz. 1800, Col. Magisterio Secc. 38, Piedras Negras, Coahuila, C.P. 26070

ATTENTION: Ing. Mario Alberto Falcón

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Report No.: MX10-0726-MOD – Serie KLDR
Date : 2010-05-07

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z Mtz. 1800, Col. Magisterio Secc. 38, Piedras Negras, Coahuila, C.P. 26070

Ing. Mario Alberto Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	NP
Item No.	19) Serie KLDR Element 082649 20) Serie KLDR Cap 923-080 21) Serie KLDR Rejection Cap 923-088 22) Serie KLDR Element 082149 23) Serie KLDR Cap Solder 927-293 24) Serie KLDR Disc 882-363-001 25) Serie KLDR Solder 692532 26) Serie KLDR/FLQ Element 082384 27) Serie KLDR Filler silica 090169
Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-03-25
Testing period	2010-03-29 to 2010-04-23

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TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

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CONCLUSION

Testing item	Conclusion	Failed component	Failed result
Serie KLDR Element 082649	Pass See Result summary	---	---
Serie KLDR Cap 923-080	Pass See Result summary	---	---
Serie KLDR Rejection Cap 923-088	failed See Result summary	Cadmium Lead	2284 mg/kg 12380,0 mg/kg
Serie KLDR Element 082149	Pass See Result summary	---	---
Serie KLDR Cap Solder 927-293	Pass See Result summary	---	---
Serie KLDR Disc 882-363-001	Pass See Result summary	---	---
Serie KLDR Solder 692532	Pass See Result summary	---	---
Serie KLDR/FLQ Element 082384	Pass See Result summary	---	---
Serie KLDR Filler silica 090169	Pass See Result summary	---	---

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TEST CONDUCTED

One (1) group of submitted samples said to be :

19) Serie KLDR Element 082649
20) Serie KLDR Cap 923-080
21) Serie KLDR Rejection Cap 923-088
22) Serie KLDR Element 082149
23) Serie KLDR Cap Solder 927-293
24) Serie KLDR Disc 882-363-001
25) Serie KLDR Solder 692532
26) Serie KLDR/FLQ Element 082384
27) Serie KLDR Filler silica 090169

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(19)	(20)	(21)	(22)	
Cadmium (Cd) content	ND	ND	2284,0	ND	0,01% (100 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Lead (Pb) content	ND	1,106	12380,0	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)

TESTING ITEM	Ω RESULT (ppm)			Limit
	(23)	(24)	(25)	
Cadmium (Cd) content	ND	ND	ND	0,01% (100 ppm)
Mercury (Hg) content	0,0776	0,2297	ND	0,1% (1000 ppm)
Lead (Pb) content	212,2	65,24	142,2	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	0,1% (1000 ppm)

TESTING ITEM	Ω RESULT (ppm)		Limit
	(26)	(27)	
Cadmium (Cd) content	ND	ND	0,01% (100 ppm)
Mercury (Hg) content	ND	ND	0,1% (1000 ppm)
Lead (Pb) content	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	0,1% (1000 ppm)

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ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :
For Intertek

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE : DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0726-19 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0726-20 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0726-21 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0726-22 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0726-23 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-0726-24 WERE TESTED TOGETHER.

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005

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 726-25 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 726-26 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 726-27 WERE TESTED TOGETHER.

Test method :

Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2009-3p63	2010-04-06	MELAJLHS, MTCM	2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
19	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	9,80
20	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	2,34
21	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	1,81
22	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	7,25
23	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,33
24	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	10,00
25	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,93
26	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	8,06
27	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 7420	MET2010-4p31	2010-04-23	VLM	7,81

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Report No.: MX10-0726-MOD – Serie KLDR
Date : 2010-05-07

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
19	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,961
20	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	0,467
21	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	0,362
22	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,449
23	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,66
24	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	2,00
25	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p31	2010-04-05	DCL,JMR	1,785
26	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	1,612
27	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p32	2010-04-05	DCL,JMR	1,562

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No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
19	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0806
20	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0235
21	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0183
22	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0806
23	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0769
24	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0820
25	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p35	2010-04-01	UBM	0,0833
26	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0833
27	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p36	2010-04-01	UBM	0,0833

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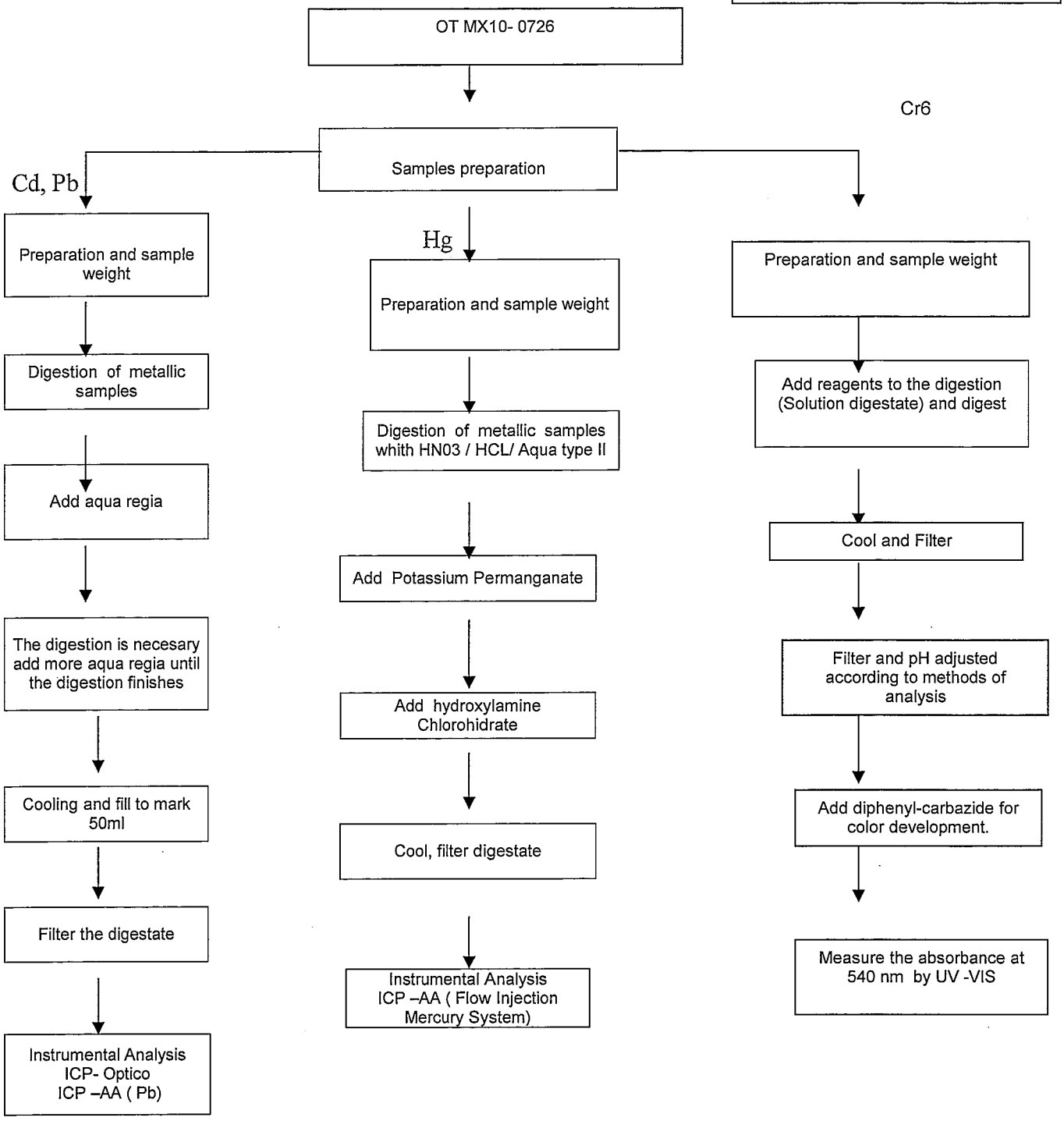
Report No.: MX10-0726
Date: 2010-05-05

Metallic samples
Flow char for samples: 19, 20, 21, 22, 23, 24, 25, 26, 27



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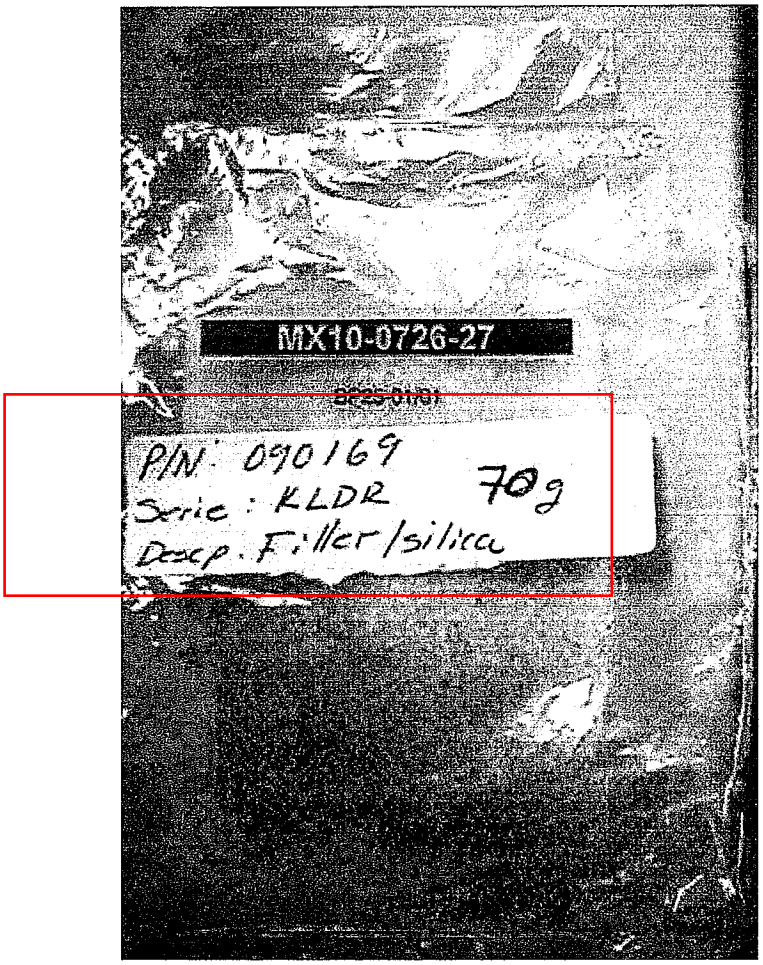
Report No.: MX10-0726
Date: 2010-05-07

MX10-0726-27



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Test Report

No. : CE/2007/38230 Date : 2007/04/03

LITTELFUSE INC.
800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	DISC (70/30 BRASS)
Style/Item No.	:	882-532
Facility	:	POWER
Sample Receiving Date	:	2007/03/28
Testing Period	:	2007/03/28 TO 2007/04/03

==========

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.

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

Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

LITTELFUSE INC.
800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	13	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

TEST PART DESCRIPTION:

NO.1 : GOLDEN COLORED METAL

Note : 1. mg/kg = ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. Spot-test:
Negative = Absence of Cr(VI) coating / surface layer,
Positive = Presence of Cr(VI) coating / surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
Boiling-water-extraction:
Negative = Absence of Cr(VI) coating / surface layer.
Positive = Presence of Cr(VI) coating / surface layer;
the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 sample surface area.

LITTELFUSE INC.
800 E NORTHWEST HIGHWAY DES PLAINES, IL 60016

** End of Report **

Test Report

No. : CE/2007/40619 Date : 2007/04/12 Page : 1 of 4

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY DES PLAINES, IL 60016

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	CAP
Style/Item No.	:	898-013-001
Facility	:	POWRGARD
Sample Receiving Date	:	2007/04/03
Testing Period	:	2007/04/03 TO 2007/04/12

==========

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.

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

Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY DES PLAINES, IL 60016

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result		MDL
		No.1	No.2	
Cadmium (Cd)	(1)	n.d.	---	2
Lead (Pb)	(2)	n.d.	---	2
Mercury (Hg)	(3)	n.d.	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	---	Negative	See Note 4

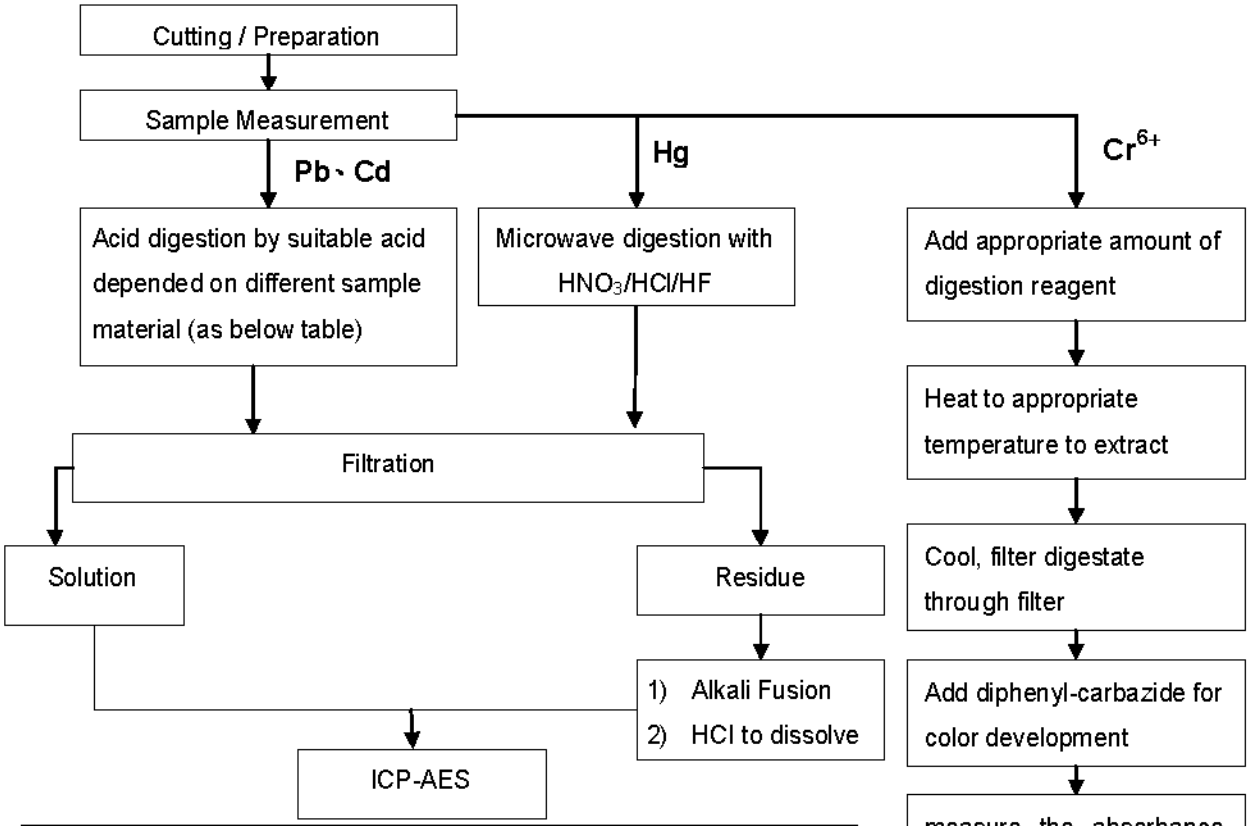
TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL
NO.2 : PLATING LAYER OF SILVER COLORED METAL

Note : 1. mg/kg = ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. Spot-test:
Negative = Absence of Cr(VI) coating / surface layer,
Positive = Presence of Cr(VI) coating / surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
Boiling-water-extraction:
Negative = Absence of Cr(VI) coating / surface layer.
Positive = Presence of Cr(VI) coating / surface layer;
the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 sample surface area.
5. "---" = Not Conducted

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY DES PLAINES, IL 60016

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
2) Name of the person who made measurement: Troy Chang
3) Name of the person in charge of measurement: Daniel Yeh



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO_3, HCl, HF, H_2O_2
Glass	HNO_3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO_3
Plastic	H_2SO_4, H_2O_2, HNO_3, HCl
Others	Any acid to total digestion

LITTELFUSE INC.
800 E. NORTHWEST HIGHWAY DES PLAINES, IL 60016

** End of Report **

Report No.: MX10-0928-Serie SPF
Date : 2010-05-31

RESULTS REPORT

INTERTEK TESTING SERVICES DE MEXICO SA DE CV

LABORATORIO CD. DE MEXICO

DELIVER TO: Littelfuse, S.A. de C.V.
Poder Judicial No. 1005, Col. Burócratas, Piedras Negras, Coahuila, C.P. 26020

ATTENTION: Berenice Casas / Mario Falcón

001

Intertek Testing Services de México, S.A. de C.V.
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

Report No.: MX10-0928-Serie SPF
Date : 2010-05-31

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Poder Judicial No. 1005, Col. Burócratas, Piedras Negras, Coahuila, C.P. 26020
Berenice Casas / Mario Falcón

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	NP
Item No.	19) P/N: 082342 Serie: SPF
	28) P/N: 909-161 / 909-171 Serie: FLQ/SPF
	29) P/N: 901-182 Serie: KLKR/BLS
	31) P/N: 087284 Serie: SPF

Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-04-20
Testing period	2010-04-29 to 2009-05-22

****

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

****

CONCLUSION

	Testing item	Conclusion	Failed component	Failed result
19	P/N: 082342 Serie: SPF	Pass See Result summary	---	---
28	P/N: 909-161 / 909-171 Serie: FLQ/SPF	Pass See Result summary	---	---
29	P/N: 901-182 Serie: KLKR/BLS	Pass See Result summary	---	---
31	P/N: 087284 Serie: SPF	Pass See Result summary	---	---

002

Report No.: MX10-0928-Serie SPF
Date : 2010-05-31

TEST CONDUCTED

One (1) group of submitted samples said to be :

19) P/N: 082342 Serie: SPF
28) P/N: 909-161 / 909-171 Serie: FLQ/SPF
29) P/N: 901-182 Serie: KLKR/BLS
31) P/N: 087284 Serie: SPF

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit #
	(19)	(28)	(29)	(31)	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	ND	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	---	ND	ND	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	---	ND	ND	ND	---
Dibromobiphenyl (DiBB)	---	ND	ND	ND	---
Tribromobiphenyl (TriBB)	---	ND	ND	ND	---
Tetrabromobiphenyl (TetraBB)	---	ND	ND	ND	---
Pentabromobiphenyl (PentaBB)	---	ND	ND	ND	---
Hexabromobiphenyl (HexaBB)	---	ND	ND	ND	---
Heptabromobiphenyl (HeptaBB)	---	ND	ND	ND	---
Octabromobiphenyl (OctaBB)	---	ND	ND	ND	---
Nonabromobiphenyl (NonaBB)	---	ND	ND	ND	---
Decabromobiphenyl (DecaBB)	---	ND	ND	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	---	ND	ND	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	---	ND	ND	ND	---
Dibromodiphenyl (DiBDE)	---	ND	ND	ND	---
Tribromodiphenyl (TriBDE)	---	ND	ND	ND	---
Tetrabromodiphenyl (TetraBDE)	---	ND	ND	ND	---
Pentabromodiphenyl (PentaBDE)	---	ND	ND	ND	---
Hexabromodiphenyl (HexaBDE)	---	ND	ND	ND	---
Heptabromodiphenyl (HeptaBDE)	---	ND	ND	ND	---
Octabromodiphenyl (OctaBDE)	---	ND	ND	ND	---
Nonabromodiphenyl (NonaBDE)	---	ND	ND	ND	---
Decabromodiphenyl (DecaBDE)	---	ND	ND	ND	---

Intertek Testing Services de México, S.A. de C.V.
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www.intertek.com

Report No.: MX10-0928-Serie SPF
Date : 2010-05-31

ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :
For Intertek

coord de área
Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN TH E BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-19 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-28 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-29 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10 928-31 WERE TESTED TOGETHER.

004

Intertek Testing Services de México, S.A. de C.V.
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C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

Report No.: MX10-0928-Serie SPF
Date : 2010-05-31

Test method :

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	Chromium VI (Cr^{6+}) content	With reference to USEPA Panasonic (HACH), by EPA Panasonic (HACH) (Sample 1,4) With reference to USEPA 3060, by EPA 7196	BAL827p85 BEQ160p5b	(Sample (1,4) 2010-05-04 2010-05-01,03	MELA,JLHS	0,020 2,0

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004440-PCL	2010-04-28 2010-05-22	CONT	50*
	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004440-PCL	2010-04-28 2010-05-22	CONT	50*

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
19	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,902
28	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,717
29	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,717
31	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	4,902

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
19	Cadmium (Cd) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	1,961
28	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,887
29	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,887
31	Cadmium (Cd) content	With reference to USEPA 3052MOD, by EPA 6010	MET2010-4p60	2010-04-29	MARY,DCL	1,961

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
19	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-4p61	2010-04-30	UBM	0,082
28	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0746
29	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0714
31	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-8p2	2010-04-30	UBM	0,0794

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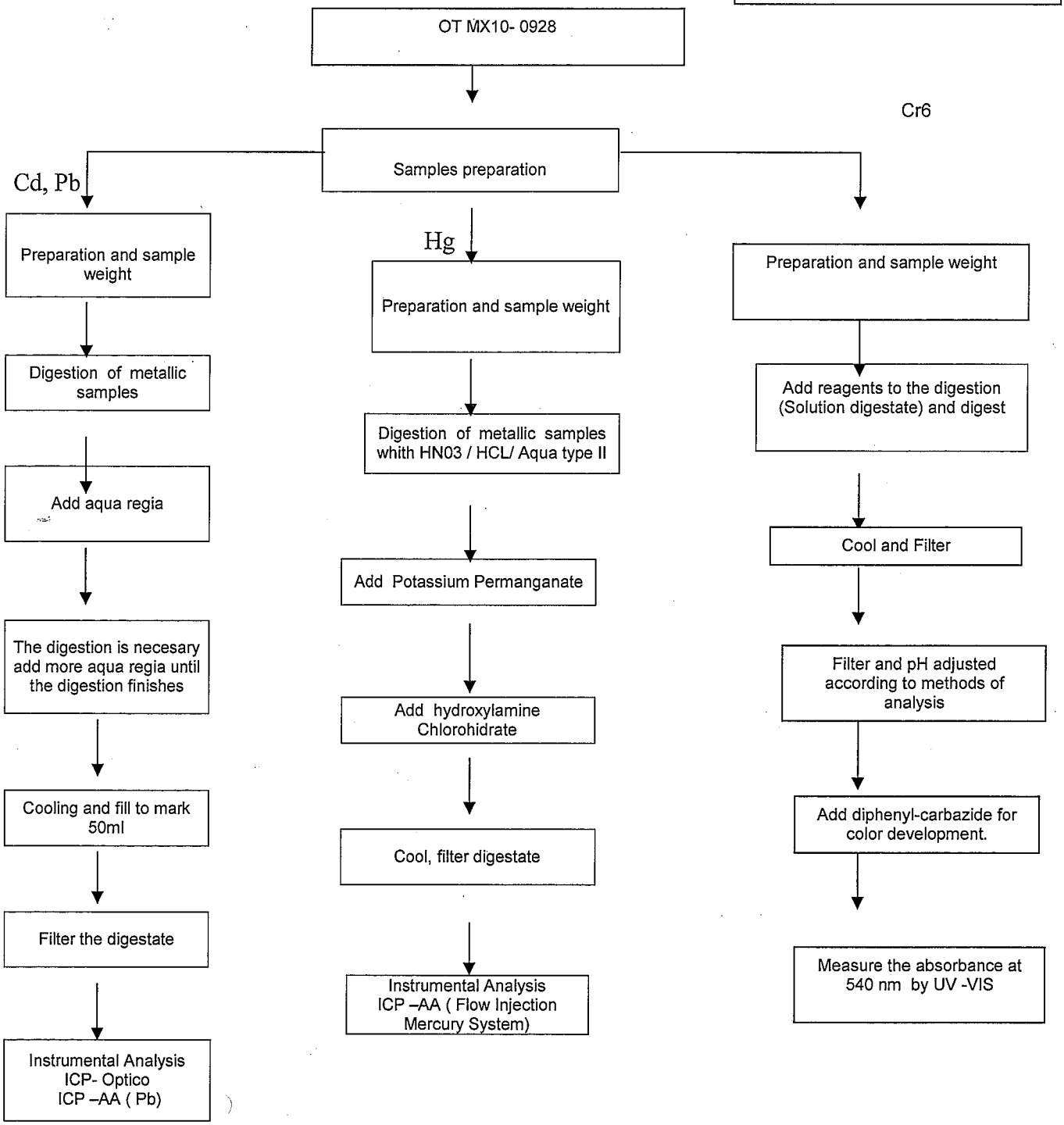
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863
www.intertek.com

Report No.: MX10-0928
Date: 2010-05-31

Metallic samples
Flow chart for samples: 19



006

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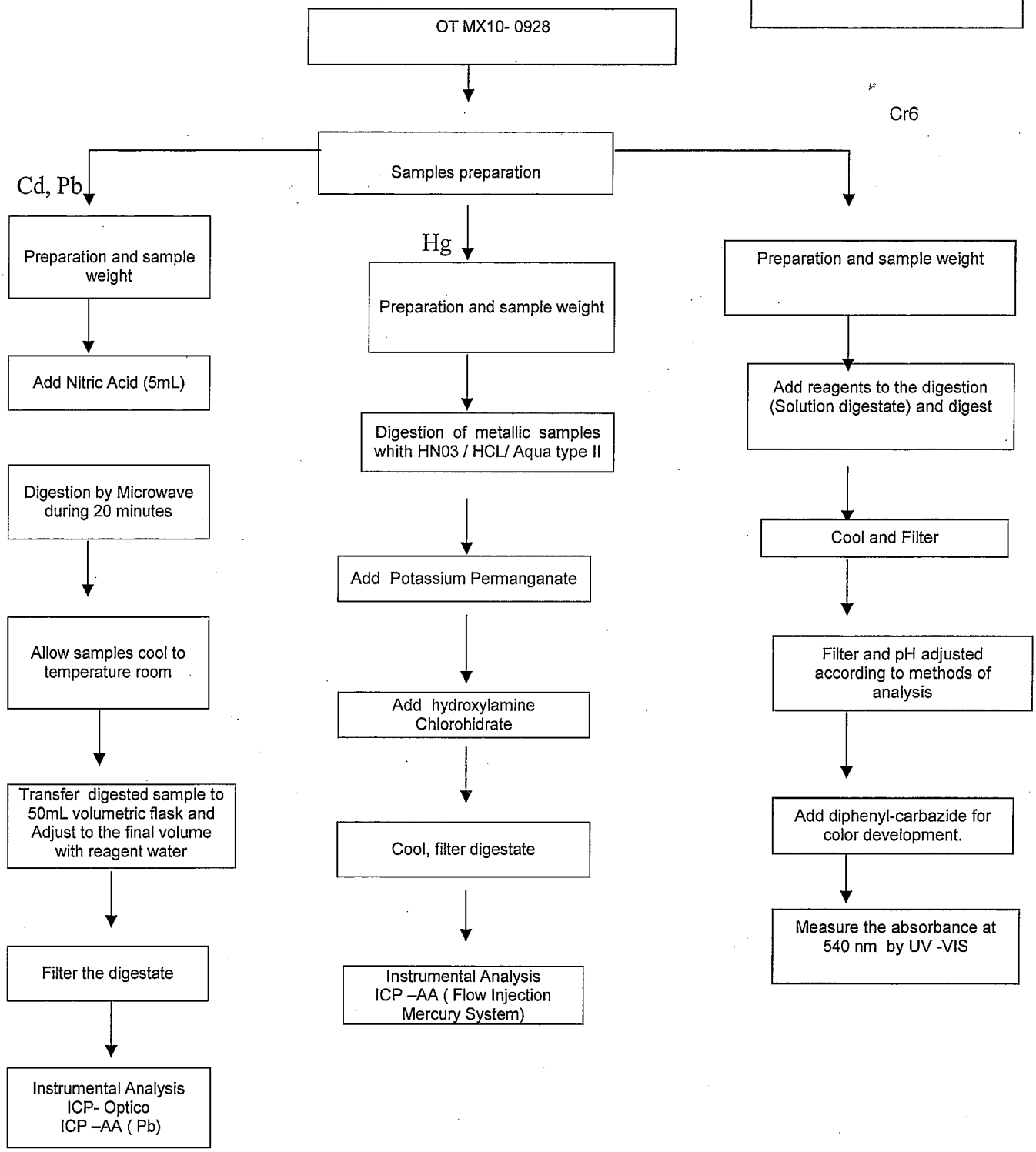
Report No.: MX10-0928
Date: 2010-05-31

Plastic samples
Flow chart for samples:
28, 29, 31



007

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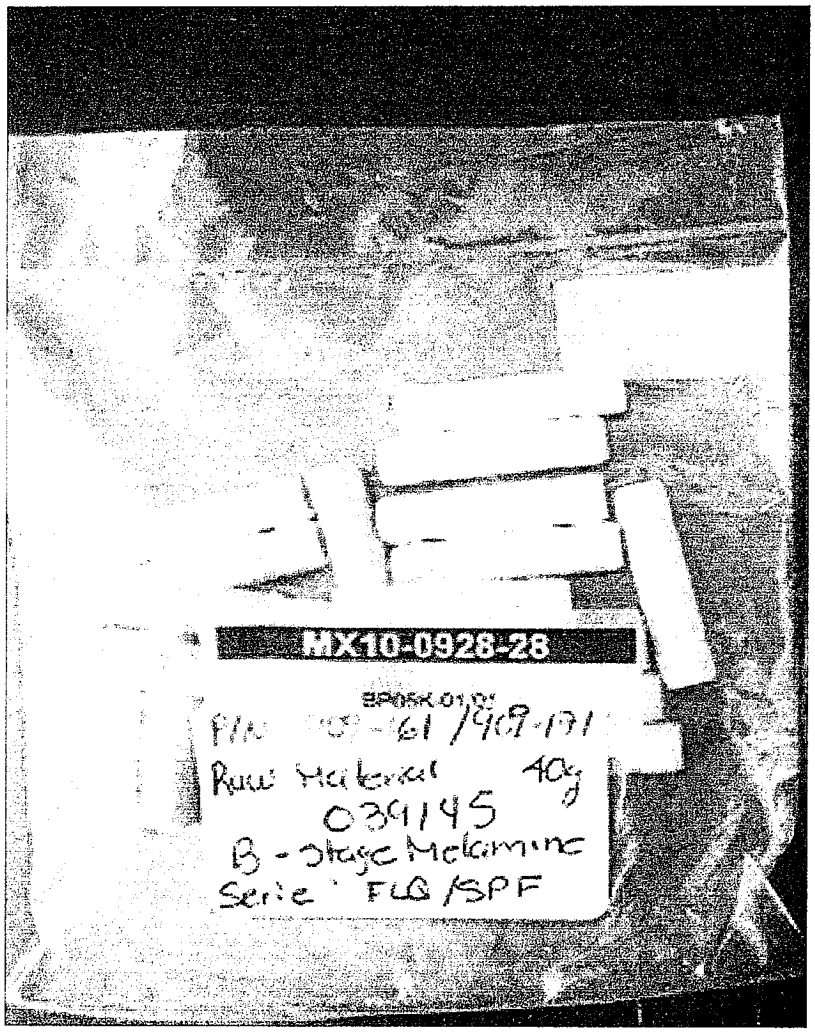
Report No.: MX10-0928
Date: 2010-05-31

MX10-0928-28



609

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Blvd. Manuel Avila Camacho No. 182 Col. Lomas de Chapultepec
C.P. 11650, México, D.F. Tel.: 50912150 Fax 55407863

Report No.: MX10-1602
Date : 2010-08-10

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
Ing. Mario Falcón / Ing. Manuel Berain

SAMPLE DESCRIPTION

One (1) group of submitted samples said to be :

Sample Description	Serie APT
Item No.	1) N.P. 924-145 2) N.P. 080697 3) N.P. 685406 4) N.P. 900-143

Country of Origin	NP
Buyer's Name	NP
Supplier's Name	NP
Date sample received	2010-07-26
Testing period	2010-07-29 to 2010-08-09

****

TEST CONDUCTED

As requested by the applicant, for details please refer to attached pages.

****

CONCLUSION

Sample Number	Testing item	Conclusion	Failed component	Failed result
1	N.P. 924-145	Pass See Result summary	---	---
2	N.P. 080697	Pass See Result summary	---	---
3	N.P. 685406	Pass See Result summary	---	---
4	N.P. 900-143	Pass See Result summary	---	---

****

Intertek Testing Services de México, S.A. de C.V.
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec

Report No.: MX10-1602
Date : 2010-08-10

TEST CONDUCTED

One (1) group of submitted samples said to be :

1) N.P. 924-145
2) N.P. 080697
3) N.P. 685406
4) N.P. 900-143

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

TESTING ITEM	Ω RESULT (ppm)				Limit
	(1)	(2)	(3)	(4)	
Cadmium (Cd) content	ND	ND	ND	ND	0,01% (100 ppm)
Lead (Pb) content	199,5	ND	ND	ND	0,1% (1000 ppm)
Mercury (Hg) content	ND	ND	ND	ND	0,1% (1000 ppm)
Chromium (VI) (Cr^{6+})	ND	ND	ND	ND	0,1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs) Total	---	---	---	ND	0,1% (1000 ppm)
Monobromobiphenyl (MonoBB)	---	---	---	ND	---
Dibromobiphenyl (DiBB)	---	---	---	ND	---
Tribromobiphenyl (TriBB)	---	---	---	ND	---
Tetrabromobiphenyl (TetraBB)	---	---	---	ND	---
Pentabromobiphenyl (PentaBB)	---	---	---	ND	---
Hexabromobiphenyl (HexaBB)	---	---	---	ND	---
Heptabromobiphenyl (HeptaBB)	---	---	---	ND	---
Octabromobiphenyl (OctaBB)	---	---	---	ND	---
Nonabromobiphenyl (NonaBB)	---	---	---	ND	---
Decabromobiphenyl (DecaBB)	---	---	---	ND	---
POLYBROMINATED DIPHENYL ETHERS (PBDEs) Total	---	---	---	ND	0,1% (1000 ppm)
Monobromodiphenyl (MonoBDE)	---	---	---	ND	---
Dibromodiphenyl (DiBDE)	---	---	---	ND	---
Tribromodiphenyl (TriBDE)	---	---	---	ND	---
Tetrabromodiphenyl (TetraBDE)	---	---	---	ND	---
Pentabromodiphenyl (PentaBDE)	---	---	---	ND	---
Hexabromodiphenyl (HexaBDE)	---	---	---	ND	---
Heptabromodiphenyl (HeptaBDE)	---	---	---	ND	---
Octabromodiphenyl (OctaBDE)	---	---	---	ND	---
Nonabromodiphenyl (NonaBDE)	---	---	---	ND	---
Decabromodiphenyl (DecaBDE)	---	---	---	ND	---

ppm = parts per million based on dry weight of sample.
$\mu g/cm^2$ = microgram per square centimeter.
mg/kg WITH $50cm^2$ = milligram per kilogram with 50 square centimeter.
< = less than.
ND = Not detected.
The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

These Accreditations only apply for the methods listed in such. Not accredited under EMA Ω.

Prepared and checked by :
For Intertek

Laboratory Manager

The Official Mexican Standard NOM-008-SCFI-1993 establishes like separator decimal the comma (,).

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

=ACCORDING TO IEC 62321, A POSITIVE RESULT INDICATES THE PRESENCE OF Cr(VI) COATING. IT IS THE Cr(VI) CONCENTRATION DETECTED IN THE BOILING-WATER-EXTRACTION SOLUTION AND SHOULD NOT BE INTERPRETED AS THE Cr(VI) CONCENTRATION IN THE COATING LAYER OF THE SAMPLE.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1602-1 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1602-2 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1602-3 WERE TESTED TOGETHER.

REMARK : AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF TESTED COMPONENTS OF THE SAMPLE MX10-1602-4 WERE TESTED TOGETHER.

Intertek

Report No.: MX10-1602
Date : 2010-08-10

Test method :

Sample number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1-4	Chromium VI (Cr^{6+}) content	With reference to USEPA 3060, by EPA 7196	QHU2009-3p151	2010-07-31	JLHS	2,0

Sample number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
4	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004616-PCL	2010-08-09	▲ CONT	50,0
4	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004616-PCL	2010-08-09	▲ CONT	50,0

Sample number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Lead (Pb) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p34	2010-08-03	DCL,JMR	5,0
2	Lead (Pb) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p34	2010-08-03	DCL,JMR	5,0
3	Lead (Pb) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p34	2010-08-03	DCL,JMR	5,0
4	Lead (Pb) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p35	2010-08-03	DCL,JMR	5,0

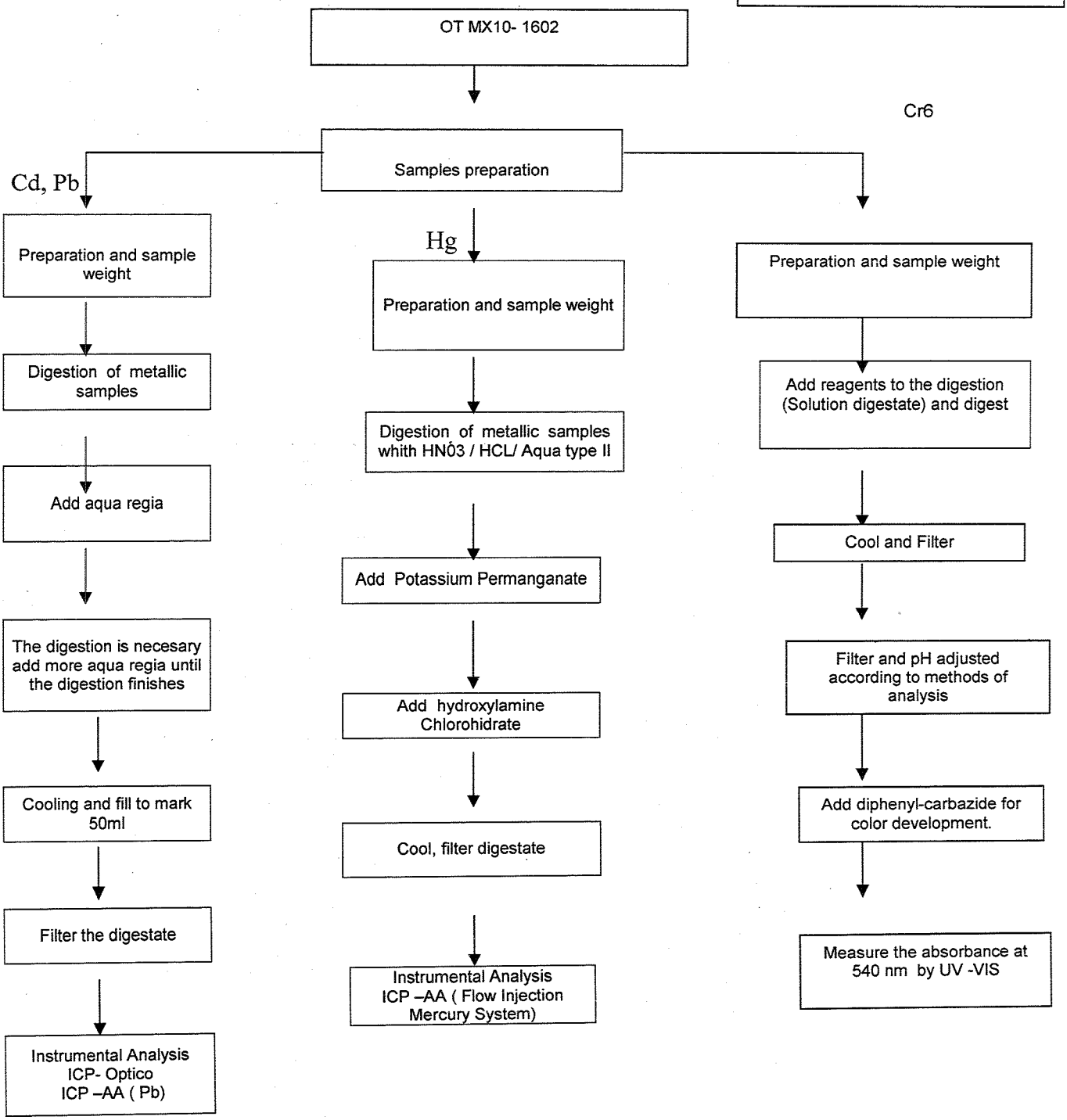
Sample number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Cadmium (Cd) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p34	2010-08-03	DCL,JMR	2,0
2	Cadmium (Cd) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p34	2010-08-03	DCL,JMR	2,0
3	Cadmium (Cd) content	With reference to USEPA 3050-MOD, by EPA 6010	MET2010-32p34	2010-08-03	DCL,JMR	2,0
4	Cadmium (Cd) content	With reference to USEPA 3052, by EPA 6010	MET2010-32p35	2010-08-03	DCL,JMR	2,0

Sample number	Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
1	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p40	2010-08-04	JAPM	0,3
2	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p40	2010-08-04	JAPM	0,3
3	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p40	2010-08-04	JAPM	0,3
4	Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p39	2010-08-04	JAPM	0,3

Intertek Testing Services de México, S.A. de C.V.

Report No.: MX10-1602
Date: 2010-08-10

Metallic samples
Flow chart for samples: 1,2,3



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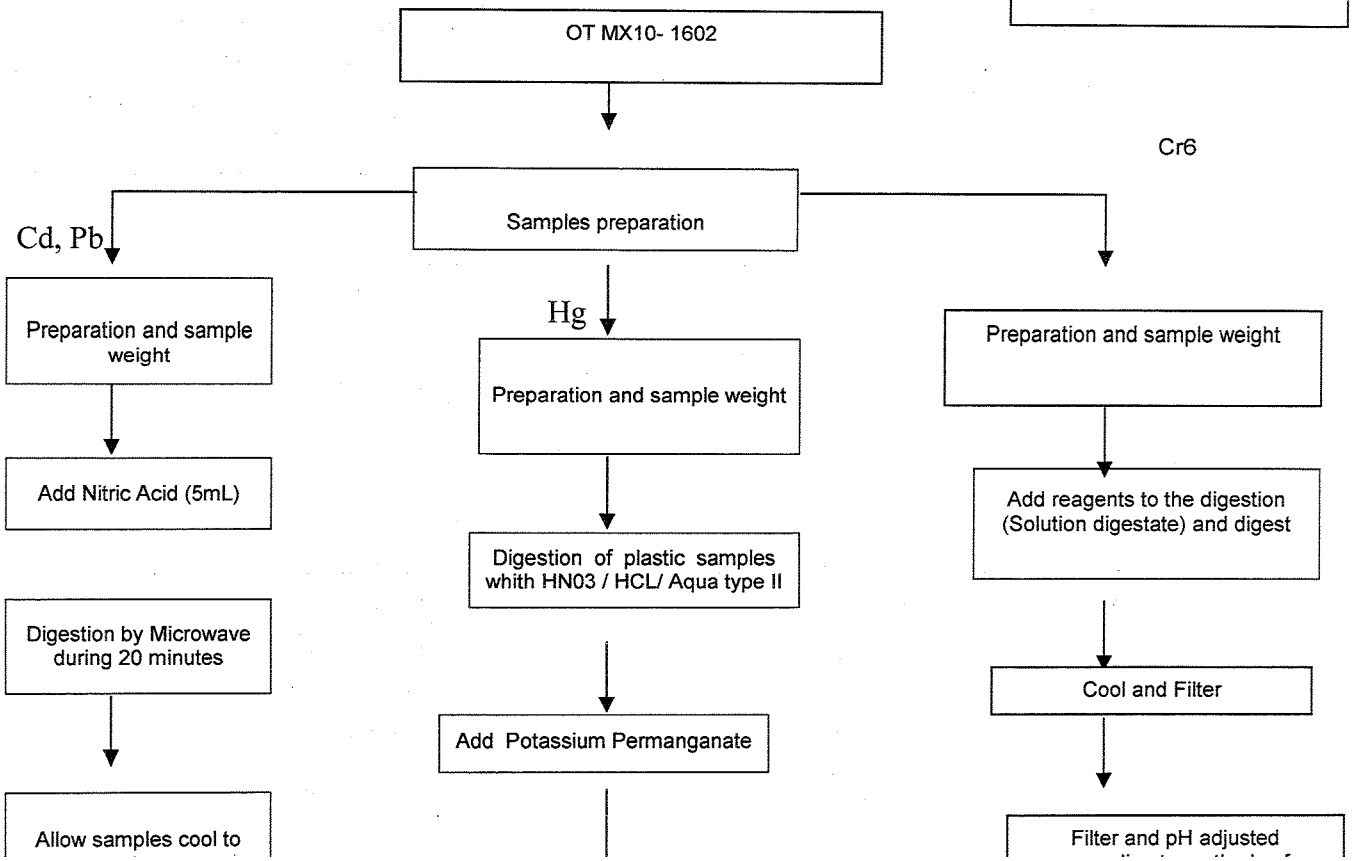
Report No.: MX10-1602
Date: 2010-08-10

Plastic samples
Flow char for samples: 4



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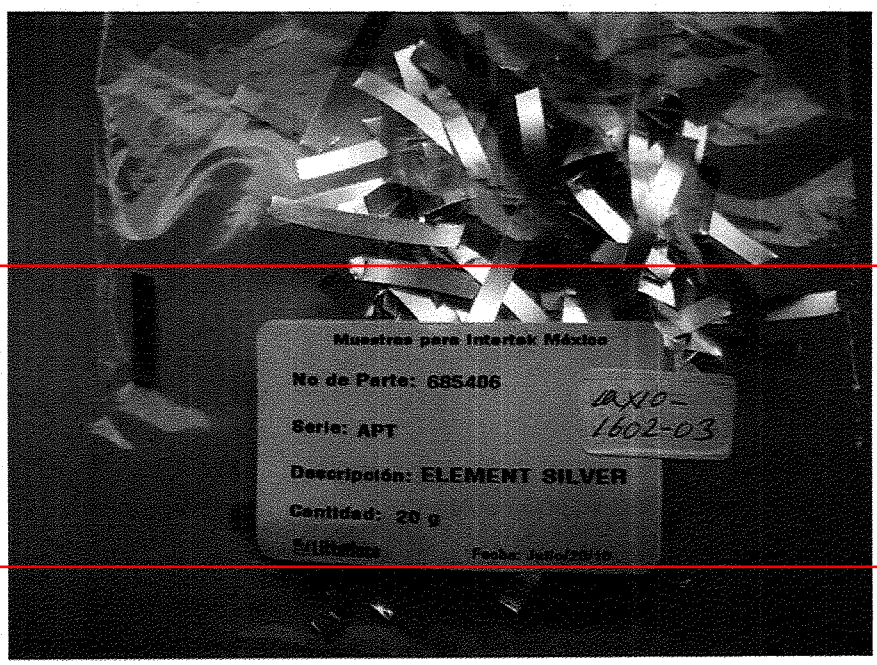

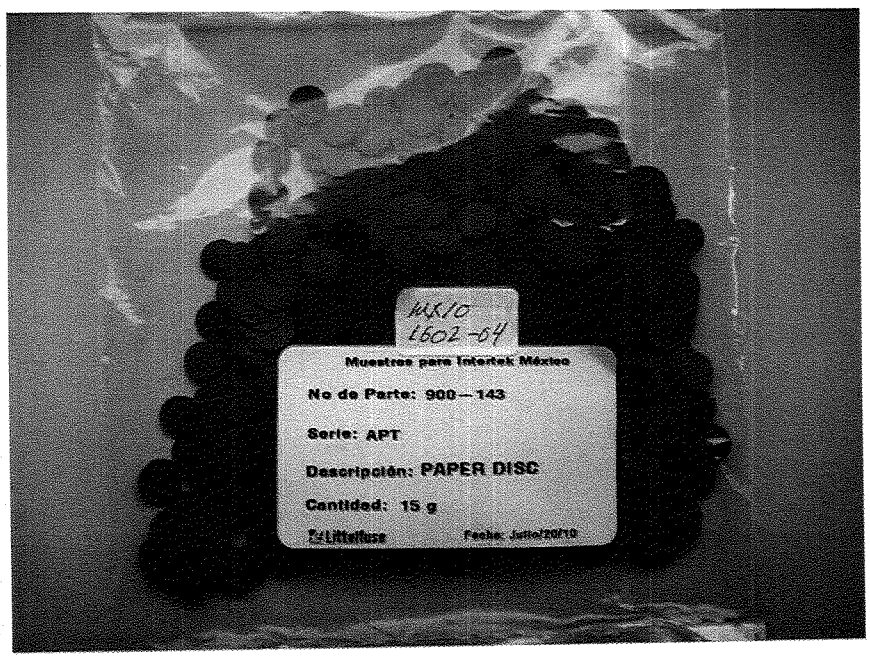

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