



ICP Test Report Certification Packet

Company name: Littelfuse, Inc.

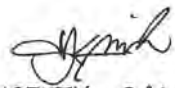
Product Series: In Line Holder

Product #: 150xxx series

Issue Date: March 24, 2011

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: 
KRISTEEN BACILA

<Global EHS Engineer>

(16) Parts, sub-materials and unit parts

This document covers the In Line Holder 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 identified 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 | 155004-1 | Body-Housing (RoHS 4) | 3-15 |
| 2 | 155004-4 | Knob | 3-15 |
| 3 | 912-065 | Spring | 3-15 |
| 4 | 904-216-001 | Rivet | 3-15 |
| 5 | 912-067 | Spring | 3-15 |
| 6 | 878-112 | Wire-Plastic Insulated | 16-26 |
| 7 | 155004-1 | Body-Housing (inlcudes PBB & PBDE) | 27-31 |
| 8 | 155004-4 | Knob (includes PBB & PBDE) | 32-37 |
| 9 | 155004-3 | Knob Insert | 38-42 |



Report No.: MX10-0726-MOD – Serie 150
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

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ILTA/003/GENS-F8

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

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001



Report No.: MX10-0726-MOD -- Serie 150
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 |
| | 30) Serie 150 Body 155004-1 |
| | 31) Serie 150 Knob 155004-4 |
| | 32) Serie 150 Body 868-062-000 |
| | 35) Serie 150 Spring 912-065 |
| Item No. | 36) Serie 150 Rivet 904-216-001 |
| | 37) Serie 150 Insert 155 004-3 |
| | 38) Serie 150 Spring 912-060 |
| | 39) Serie 150 Spring 912-067 |

| | |
|----------------------|--------------------------|
| 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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002



Report No.: MX10-0726-MOD – Serie 150
Date : 2010-05-07

TEST CONDUCTED

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

CONCLUSION

| <u>Testing item</u> | <u>Conclusion</u> | <u>Failed component</u> | <u>Failed result</u> |
|-----------------------------|----------------------------|-------------------------|----------------------|
| Serie 150 Body 155004-1 | Pass See Result summary | --- | --- |
| Serie 150 Knob 155004-4 | Pass See Result summary | --- | --- |
| Serie 150 Body 868-062-000 | Pass See Result summary | --- | --- |
| Serie 150 Spring 912-065 | Pass See Result summary | --- | --- |
| Serie 150 Rivet 904-216-001 | Pass See Result summary | --- | --- |
| Serie 150 Insert 155 004-3 | Pass See Result summary | --- | --- |
| Serie 150 Spring 912-060 | Pass See Result summary | --- | --- |
| Serie 150 Spring 912-067 | Pass See Result summary | --- | --- |

TEST CONDUCTED

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

- 30) Serie 150 Body 155004-1
- 31) Serie 150 Knob 155004-4
- 32) Serie 150 Body 868-062-000
- 35) Serie 150 Spring 912-065
- 36) Serie 150 Rivet 904-216-001
- 37) Serie 150 Insert 155 004-3
- 38) Serie 150 Spring 912-060
- 39) Serie 150 Spring 912-067

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003



Report No.: MX10-0726-MOD – Serie 150
Date : 2010-05-07

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

| TESTING ITEM | Ω RESULT (ppm) | | | | Limit |
|-----------------------------------|----------------|------|------|-------|-----------------|
| | (30) | (31) | (32) | (35) | |
| Cadmium (Cd) content | ND | ND | ND | 50,22 | 0,01% (100 ppm) |
| Mercury (Hg) content | ND | ND | ND | ND | 0,1% (1000 ppm) |
| Lead (Pb) content | 13,50 | ND | ND | 14,62 | 0,1% (1000 ppm) |
| Chromium (VI) (Cr ⁶⁺) | ND | ND | ND | ND | 0,1% (1000 ppm) |

| TESTING ITEM | Ω RESULT (ppm) | | | | Limit |
|-----------------------------------|----------------|-------|-------|-------|-----------------|
| | (36) | (37) | (38) | (39) | |
| Cadmium (Cd) content | ND | 53,69 | 51,61 | 54,06 | 0,01% (100 ppm) |
| Mercury (Hg) content | ND | ND | ND | ND | 0,1% (1000 ppm) |
| Lead (Pb) content | 39,31 | 7,851 | 13,86 | 11,77 | 0,1% (1000 ppm) |
| Chromium (VI) (Cr ⁶⁺) | ND | ND | ND | ND | 0,1% (1000 ppm) |

ppm = parts per million based on dry weight of sample.
 µg/cm² = microgram per square centimeter.
 mg/kg WITH 50cm² = 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 Lozano
[Signature]
 coord. de área

Laboratory Manager



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

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004

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Report No.: MX10-0726-MOD – Serie 150
Date : 2010-05-07

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 MX10-0726-30 WERE TESTED TOGETHER

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-31 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-32 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-35 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-36 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-37 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-38 WERE TESTED TOGETHER.

REMARK: AS REQUESTED BY THE APPLICANT, COATING WITH BASE MATERIAL OF
TESTED COMPONENTS OF THE SAMPLE MX10-0726-39 WERE TESTED TOGETHER.

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005



Report No.: MX10-0726-MOD – Serie 150
Date : 2010-05-07

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 | MELA,JLHS, MTCM | 2,0 |

| No. de Muestra | Testing item | Ω Testing method | Quality control Batch: | Analysis Date: | Analyzed By: | Reporting limit ppm |
|----------------|-------------------|--|------------------------|----------------|--------------|---------------------|
| 30 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p33 | 2010-04-23 | VLM | 6,76 |
| 31 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p33 | 2010-04-23 | VLM | 10,20 |
| 32 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p33 | 2010-04-23 | VLM | 7,69 |
| 35 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p32 | 2010-04-23 | VLM | 4,27 |
| 36 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p32 | 2010-04-23 | VLM | 6,85 |
| 37 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p32 | 2010-04-23 | VLM | 2,16 |
| 38 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p32 | 2010-04-23 | VLM | 7,81 |
| 39 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p32 | 2010-04-23 | VLM | 13,16 |

| No. de Muestra | Testing item | Ω Testing method | Quality control Batch: | Analysis Date: | Analyzed By: | Reporting limit ppm |
|----------------|----------------------|--|------------------------|----------------|--------------|---------------------|
| 30 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p33 | 2010-04-05 | DCL,JMR | 1,351 |
| 31 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p33 | 2010-04-05 | DCL,JMR | 2,041 |
| 32 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p33 | 2010-04-05 | DCL,JMR | 1,538 |
| 35 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p32 | 2010-04-05 | DCL,JMR | 0,855 |
| 36 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p32 | 2010-04-05 | DCL,JMR | 1,369 |
| 37 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p32 | 2010-04-05 | DCL,JMR | 0,432 |
| 38 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p32 | 2010-04-05 | DCL,JMR | 1,562 |
| 39 | Cadmium (Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p32 | 2010-04-05 | DCL,JMR | 2,631 |

| No. de Muestra | Testing item | Ω Testing method | Quality control Batch: | Analysis Date: | Analyzed By: | Reporting limit ppm |
|----------------|----------------------|--|------------------------|----------------|--------------|---------------------|
| 30 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p37 | 2010-04-01 | UBM | 0,0746 |
| 31 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p37 | 2010-04-01 | UBM | 0,0806 |
| 32 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p37 | 2010-04-01 | UBM | 0,0131 |
| 35 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p36 | 2010-04-01 | UBM | 0,0833 |
| 36 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p36 | 2010-04-01 | UBM | 0,0833 |
| 37 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p36 | 2010-04-01 | UBM | 0,0220 |
| 38 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p36 | 2010-04-01 | UBM | 0,0820 |
| 39 | Mercury (Hg) content | With reference to USEPA 7471 by USEPA 7471 | MET2010-4p36 | 2010-04-01 | UBM | 0,0758 |

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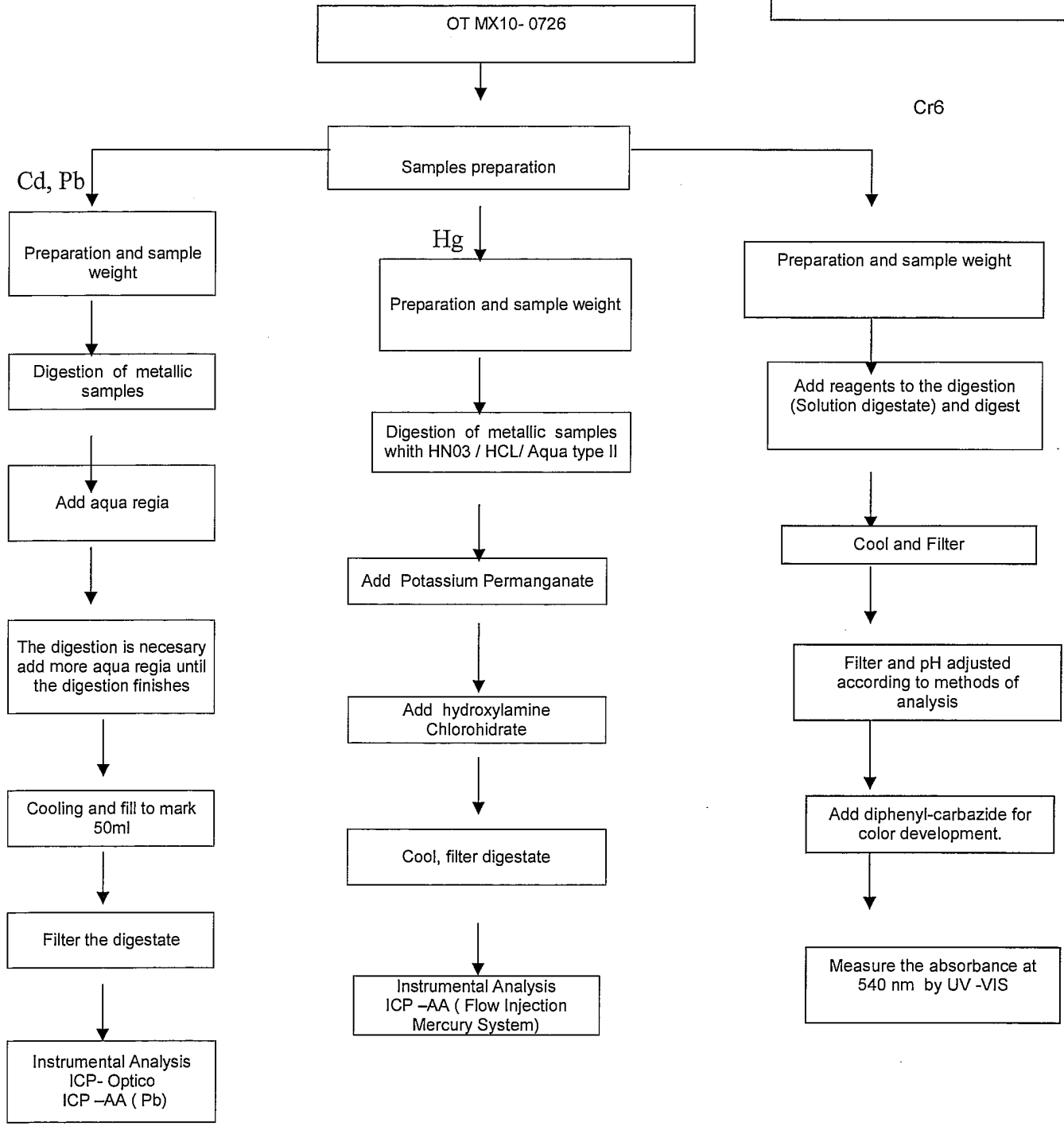
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006



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

Metallic samples
Flow char for samples: 36, 37, 38, 39



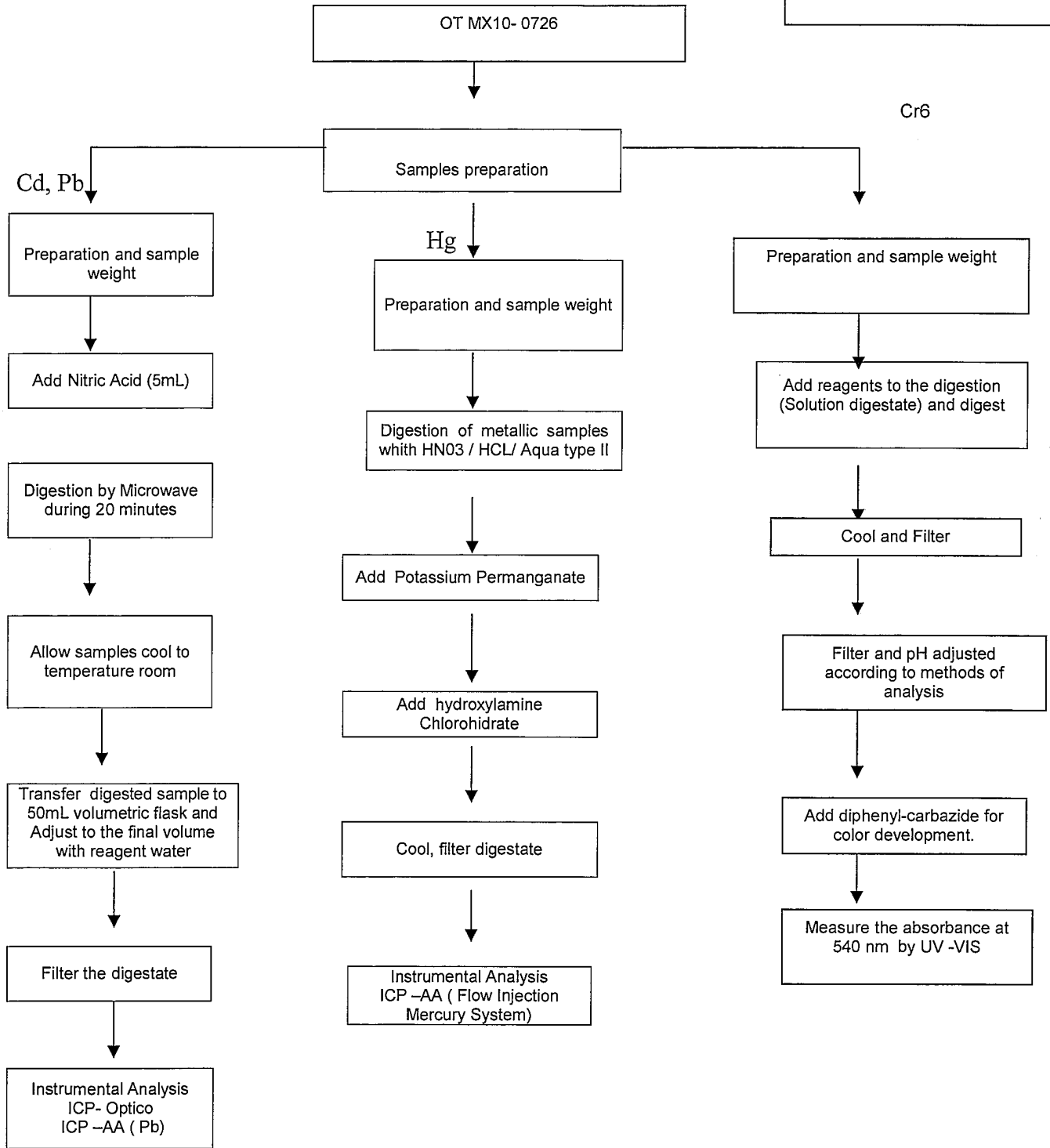
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007

Plastic samples
Flow char for samples: 30, 31, 32



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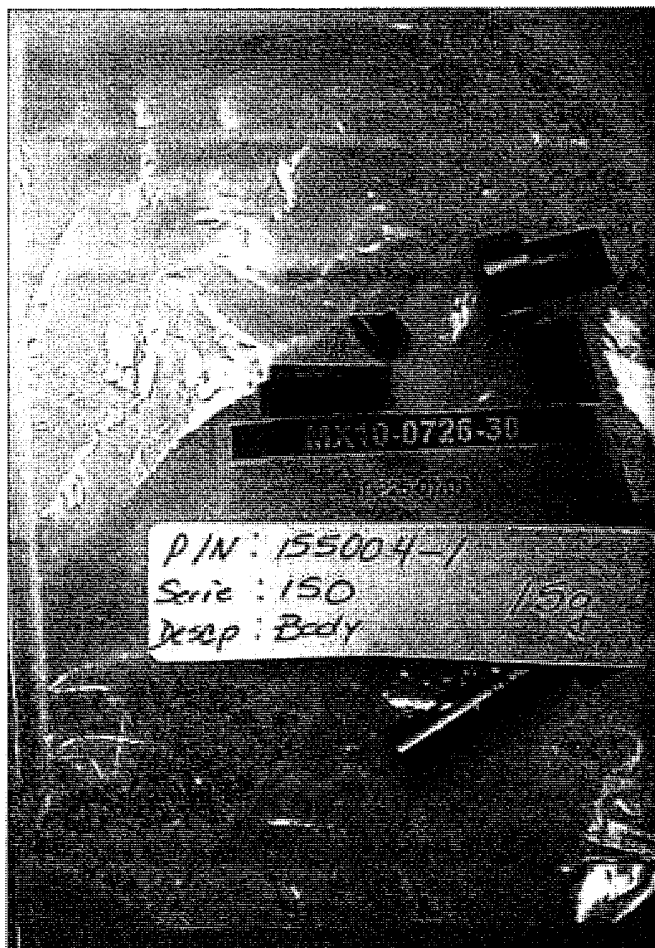
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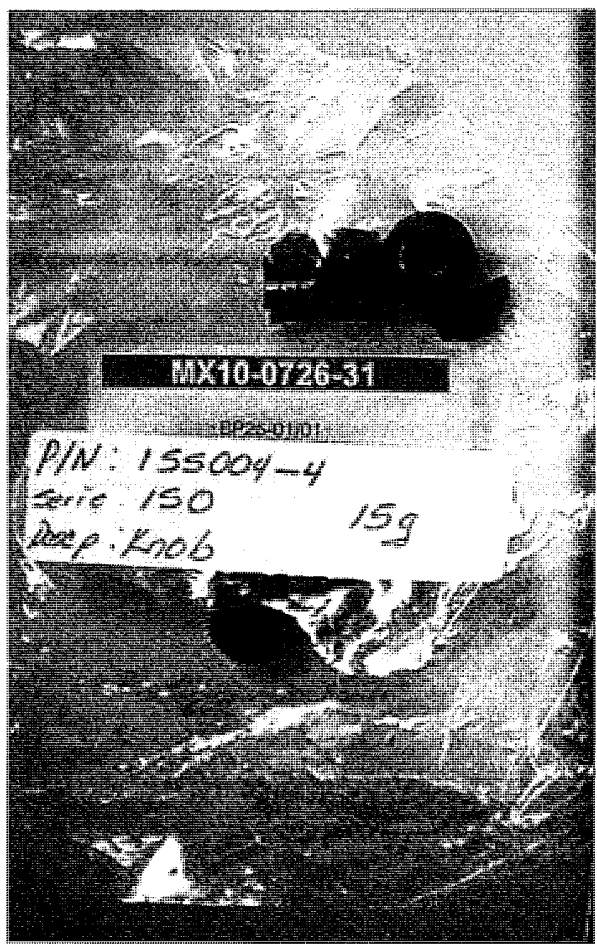
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008

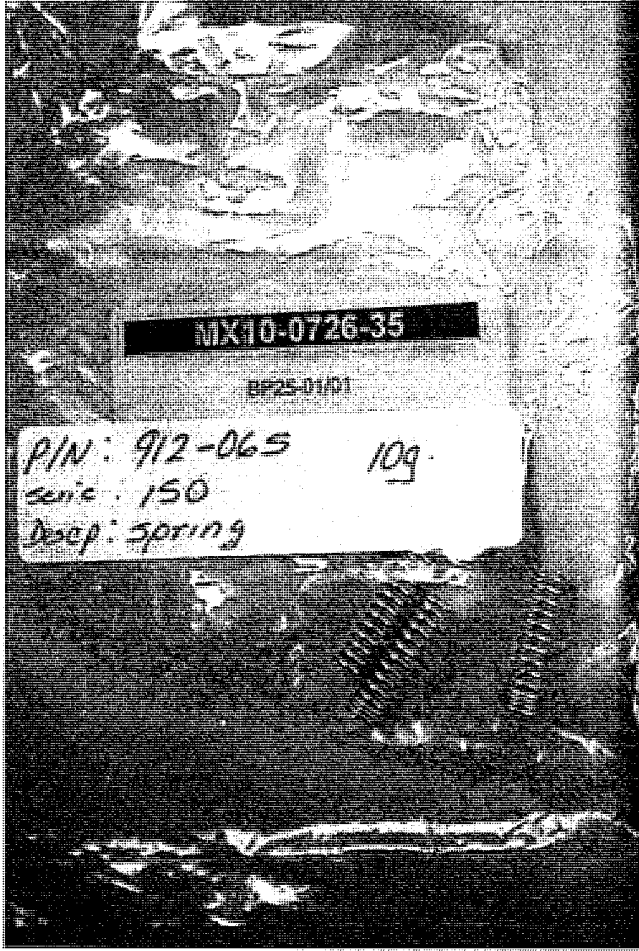
MX10-0726-30



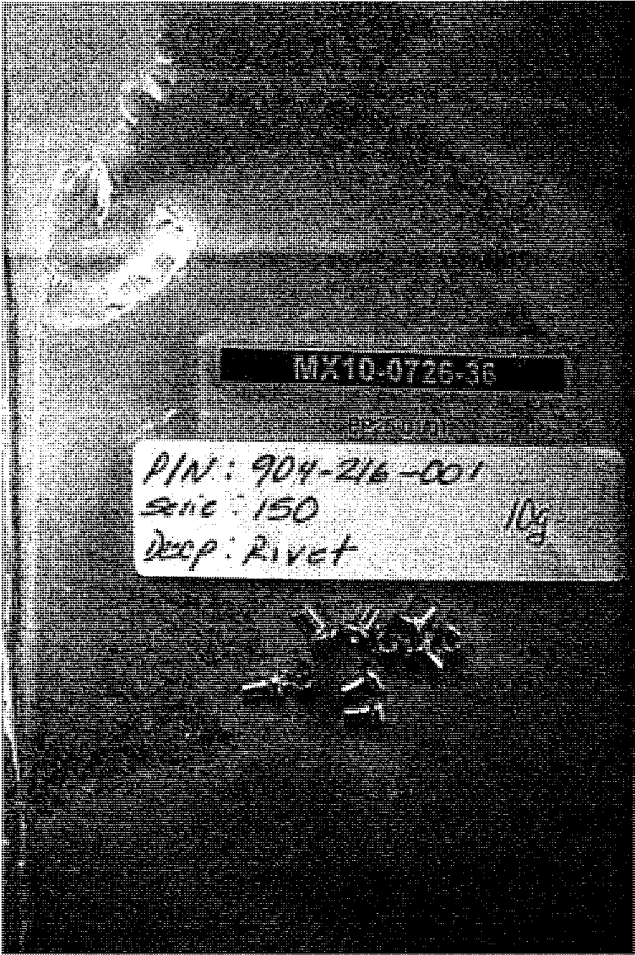
MX10-0726-31



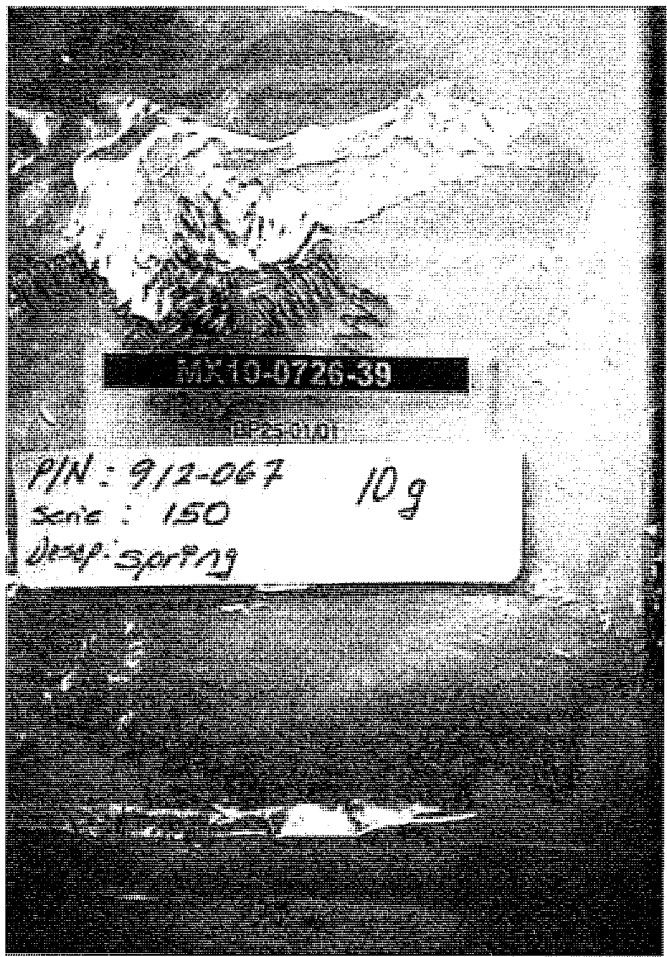
MX10-0726-35



MX10-0726-36



MX10-0726-39

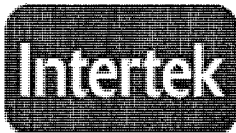


RESULTS REPORT
INTERTEK TESTING SERVICES
DE MEXICO SA DE CV
LABORATORIO CD. DE MEXICO

DELIVER TO:

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Blvd. Fausto Z. Mtz. 1800, Col. Magisterio Sección 38, Piedras
Negras, Coahuila, 26070

ATTENTION: Ing. Mario Falcón



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 |
| | 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 |
| Item No. | 6) No. Parte 878-113 Serie 155 |
| | 8) No. Parte 155004-4 Serie 155XXXX2XA |
| | 16) No. Parte 155004-3 Serie 155 XXXX2XA |
| | 18) No. Parte 079055 Serie BLN |

| | |
|----------------------|--------------------------|
| 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 |
|----|---|----------------------------|------------------|---------------|
| 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 | --- | --- |
| 6 | No. Parte 878-113 Serie 155 | Pass See Result summary | --- | --- |
| 8 | No. Parte 155004-4 Serie 155XXXX2XA | Pass See Result summary | --- | --- |
| 16 | No. Parte 155004-3 Serie 155 XXXX2XA | Pass See Result summary | --- | --- |
| 18 | No. Parte 079055 Serie BLN | Pass See Result summary | --- | --- |

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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 | --- | --- |

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TEST CONDUCTED

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

- 4) No. Parte 084113 Serie 155
- 6) No. Parte 878-113 Serie 155

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

| TESTING ITEM | Ω RESULT (ppm) | | | | Limit |
|---|----------------|-------|-----------|-------|-----------------|
| | (4a) | (4b) | (6a) | (6b) | |
| | Insulator | metal | Insulator | metal | |
| Cadmium (Cd) content | ND | ND | ND | ND | 0,01% (100 ppm) |
| Lead (Pb) content | ND | 9,571 | ND | 9,199 | 0,1% (1000 ppm) |
| Mercury (Hg) content | ND | ND | ND | ND | 0,1% (1000 ppm) |
| Chromium (VI) (Cr ⁶⁺) | 2,182 | ND | ND | 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 | --- | --- |

TEST CONDUCTED

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

- 8) No. Parte 155004-4 Serie 155XXXX2XA
- 16) No. Parte 155004-3 Serie 155 XXXX2XA
- 18) No. Parte 079055 Serie BLN

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

| TESTING ITEM | Ω RESULT (ppm) | | | Limit |
|---|----------------|-------|-------|-----------------|
| | (8) | (16) | (18) | |
| Cadmium (Cd) content | ND | 49,54 | ND | 0,01% (100 ppm) |
| Lead (Pb) content | ND | 9,47 | 31,62 | 0,1% (1000 ppm) |
| Mercury (Hg) content | ND | ND | ND | 0,1% (1000 ppm) |
| Chromium (VI) (Cr ⁶⁺) | ND | 2,912 | 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 | --- | --- | --- |

ppm = parts per million based on dry weight of sample.
 $\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.
 $\text{mg}/\text{kg WITH } 50\text{cm}^2$ = 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
[Signature]
Cortés de Arce



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 MX10-0867-6 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 MX10-0867-16 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.

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[Signature]
06



Report No.: MX10-0867-Adicionales

Date : 2010-05-31

Test method :

| <u>No. de Muestra</u> | <u>Testing item</u> | <u>Ω Testing method</u> | <u>Quality control Batch:</u> | <u>Analysis Date:</u> | <u>Analyzed By:</u> | <u>Reporting limit ppm</u> |
|-----------------------|--------------------------------------|---|-------------------------------|-----------------------|---------------------|----------------------------|
| | Chromium (Cr ⁶⁺) content | With reference to USEPA 3060, by EPA 7196 | BEQ160p5b | 2010-04-24 | MELA | 2,0 |

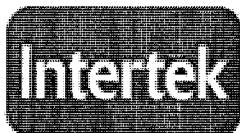
| <u>No. de Muestra</u> | <u>Testing item</u> | <u>Ω Testing method</u> | <u>Quality control Batch:</u> | <u>Analysis Date:</u> | <u>Analyzed By:</u> | <u>Reporting limit ppm</u> |
|-----------------------|---------------------------------------|---|-------------------------------|-----------------------|---------------------|----------------------------|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

| <u>No. de Muestra</u> | <u>Testing item</u> | <u>Ω Testing method</u> | <u>Quality control Batch:</u> | <u>Analysis Date:</u> | <u>Analyzed By:</u> | <u>Reporting limit ppm</u> |
|-----------------------|---------------------|--|-------------------------------|-----------------------|---------------------|----------------------------|
| 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 |
| 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 |
| 8 | Lead (Pb) content | With reference to USEPA 3052MOD, by EPA 6010 | MET2010-4p51 | 2010-04-22 | JMR,DCL | 5,102 |
| 16 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p47,48 | 2010-04-23 | MARY,VLM | 6,85 |
| 18 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p47,48 | 2010-04-22 | JMR,DCL | 4,901 |

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07



Report No.: MX10-0867-Adicionales

Date : 2010-05-31

| 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 |
| 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 |
| 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 |
| 8 | Cadmium(Cd) content | With reference to USEPA 3052MOD, by EPA 6010 | MET2010-4p51 | 2010-04-22 | JMR,DCL | 2,04 |
| 16 | Cadmium(Cd) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p47,48 | 2010-04-23 | MARY,VLM | 1,37 |
| 18 | Cadmium(Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p47,48 | 2010-04-22 | JMR,DCL | 1,96 |

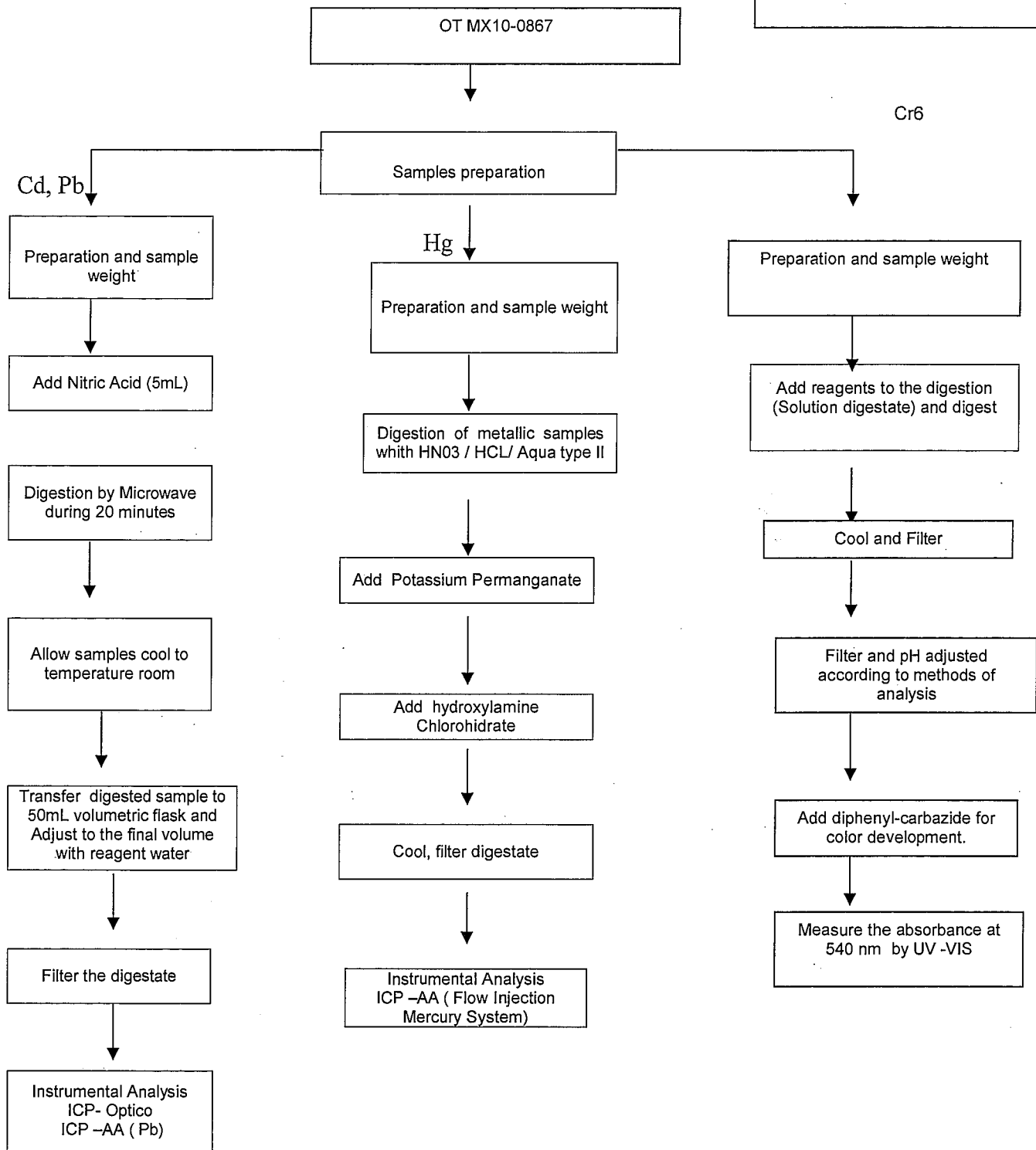
| No. de Muestra | Testing item | Ω Testing method | Quality control Batch: | Analysis Date: | Analyzed By: | Reporting limit ppm |
|----------------|----------------------|--|------------------------|----------------|--------------|---------------------|
| 1 (a) | Mercury (Hg) content | With reference 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 |
| 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 |
| 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 |
| 8 | Mercury (Hg) content | With reference to USEPA 7471MOD, by EPA 7471 | MET2010-4p46 | 2010-04-20 | UBM | 0,0833 |
| 16 | Mercury (Hg) content | With reference to USEPA 7471MOD, by EPA 7471 | MET2010-4p44 | 2010-04-20 | UBM | 0,082 |
| 18 | Mercury (Hg) content | With reference to USEPA 7471MOD, by EPA 7471 | MET2010-4p44 | 2010-04-20 | UBM | 0,082 |

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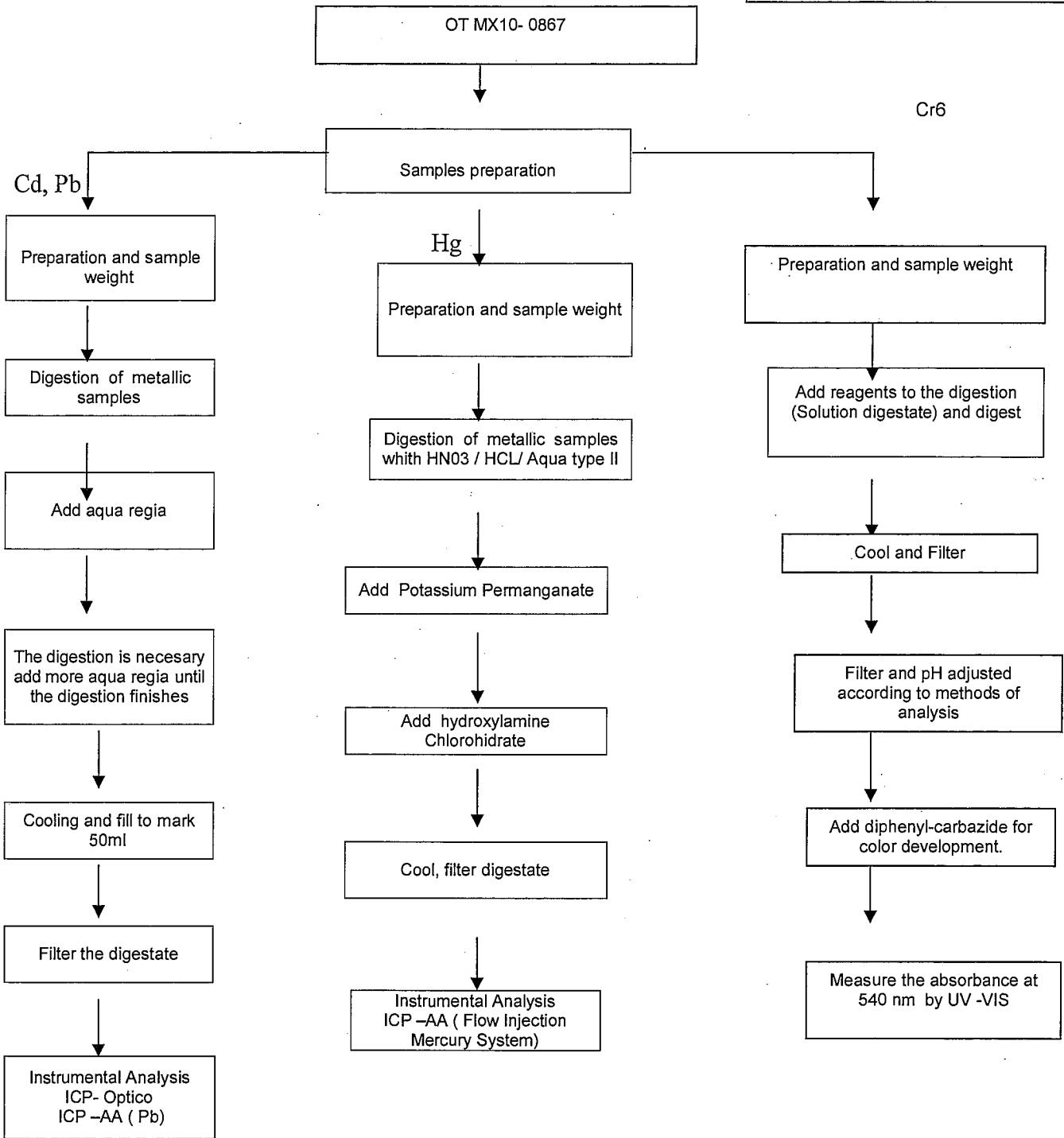
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Plastic samples
Flow chart for samples:
1(a), 2(a), 3(a), 4(a), 6(a), 8



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Metallic samples
Flow chart for samples:
1(b), 2(b), 3(b), 4(b), 6(b), 16, 18



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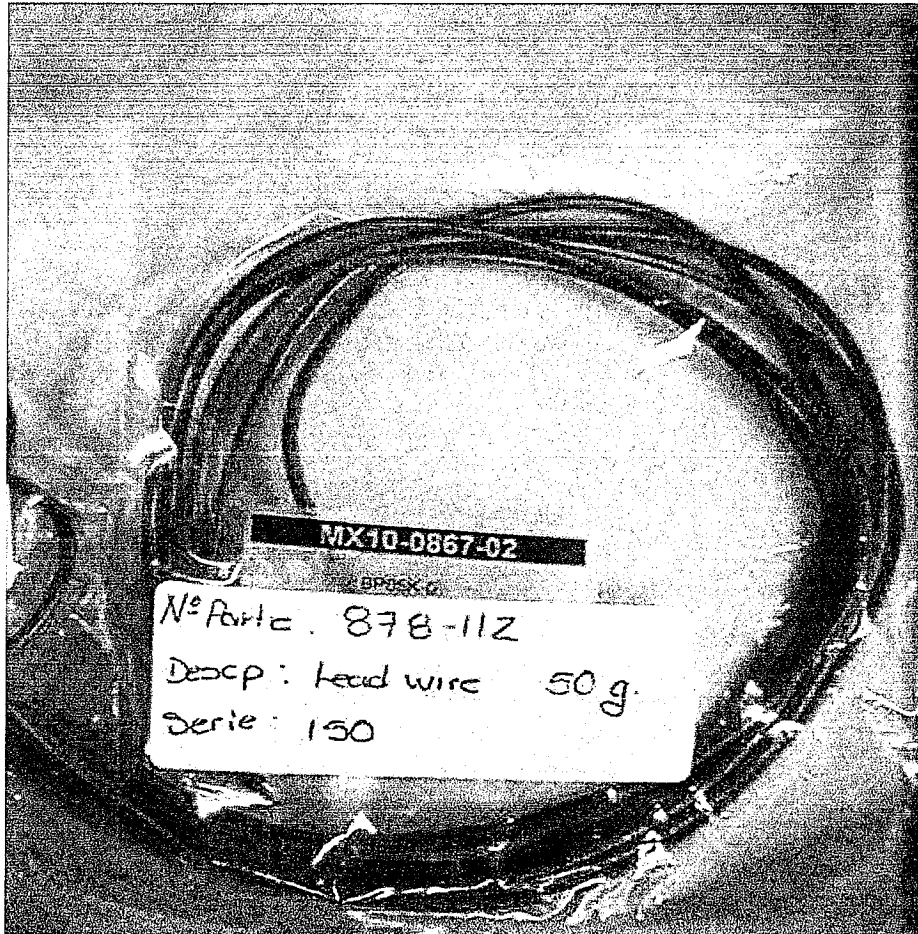
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ILTA/003/GENS-F8

1º. Emisión Junio 2005, 1º Revisión Junio 26, 2009.

MX10-0867-02



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. Martínez 1800, Col. Magisterio Sección 38,
Piedras Negras, Coahuila

ATTENTION: María Valdez

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ILTA/003/GENS-F8

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Report No.: MX10-2756
Date : 2010-11-30

TEST REPORT

APPLICANT

Littelfuse, S.A. de C.V.
Blvd. Fausto Z. Martínez 1800, Col. Magisterio Sección 38, Piedras Negras, Coahuila
María Valdez

SAMPLE DESCRIPTION

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

Sample Description NP
Item No. 1) N/P 155004-1 Body

Country of Origin NP
Buyer's Name NP
Supplier's Name NP

Date sample received 2010-11-17
Testing period 2010-11-19 to 2010-11-22

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 155004-1 Body | Pass See Result summary | --- | --- |



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TEST CONDUCTED

Samples:

- 1) N/P 155004-1 Body

TEST RESULT SUMMARY FOR RoHS DIRECTIVE:

| TESTING ITEM | Ω RESULT (ppm) | Limit |
|--|----------------|-----------------|
| | (1) | |
| 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 | --- |

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ILTA/003/GENS-FB



000002



Report No.: MX10-2756

Date : 2010-11-30

ppm = parts per million based on dry weight of sample.

µg/cm² = microgram per square centimeter.

mg/kg WITH 50cm² = 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 Lopez de
[Signature]
coord-de area

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 MX10-2756-01 WERE TESTED TOGETHER.

Test method :

| Sample Number | Testing item | Ω Testing method | Quality control Batch: | Analysis Date: | Analyzed By: | Reporting limit ppm |
|---------------|---|----------------------|------------------------|----------------|--------------|---------------------|
| 1 | POLYBROMINATE D BIPHENYLS (PBBs) | Determined by GC-MSD | 2010-004892-P CL | 2010-11-22 | ▲ CONT | 50,0 |
| 1 | POLYBROMINATE D DIPHENYL ETHERS (PBDEs) | Determined by GC-MSD | 2010-004892-P CL | 2010-11-22 | ▲ CONT | 50,0 |



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1ª. Emisión Junio 2005, 1ª Revisión Junio 26, 2009.

ILTA/003/GENS-F6 000003

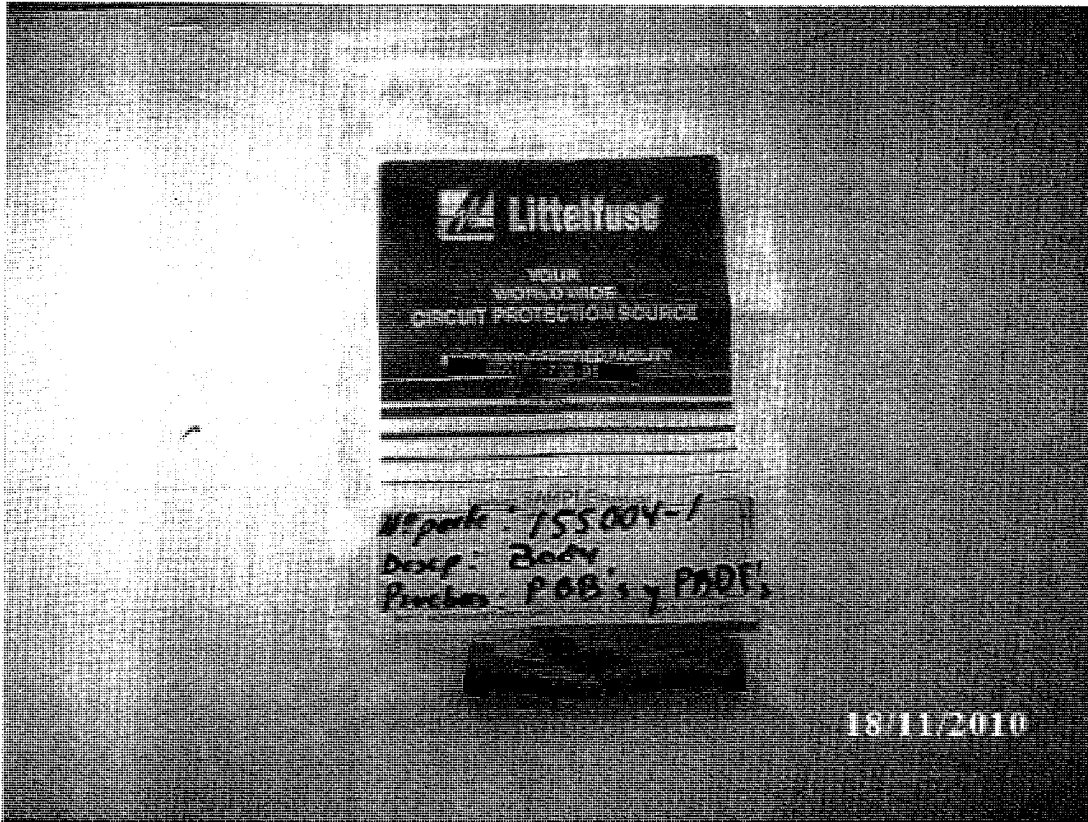
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MX10-2756



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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



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 |
| | 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 |
| Item No. | 6) No. Parte 878-113 Serie 155 |
| | 8) No. Parte 155004-4 Serie 155XXXX2XA |
| | 16) No. Parte 155004-3 Serie 155 XXXX2XA |
| | 18) No. Parte 079055 Serie BLN |

| | |
|----------------------|--------------------------|
| 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 |
|----|---|----------------------------|------------------|---------------|
| 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 | --- | --- |
| 6 | No. Parte 878-113 Serie 155 | Pass See Result summary | --- | --- |
| 8 | No. Parte 155004-4 Serie 155XXXX2XA | Pass See Result summary | --- | --- |
| 16 | No. Parte 155004-3 Serie 155 XXXX2XA | Pass See Result summary | --- | --- |
| 18 | No. Parte 079055 Serie BLN | Pass See Result summary | --- | --- |

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TEST CONDUCTED

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

- 8) No. Parte 155004-4 Serie 155XXXX2XA
- 16) No. Parte 155004-3 Serie 155 XXXX2XA
- 18) No. Parte 079055 Serie BLN

TEST RESULT SUMMARY FOR RoHS DIRECTIVE :

| TESTING ITEM | Ω RESULT (ppm) | | | Limit |
|---|----------------|-------|-------|-----------------|
| | (8) | (16) | (18) | |
| Cadmium (Cd) content | ND | 49,54 | ND | 0,01% (100 ppm) |
| Lead (Pb) content | ND | 9,47 | 31,62 | 0,1% (1000 ppm) |
| Mercury (Hg) content | ND | ND | ND | 0,1% (1000 ppm) |
| Chromium (VI) (Cr ⁶⁺) | ND | 2,912 | 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 | --- | --- | --- |

ppm = parts per million based on dry weight of sample.
 $\mu\text{g}/\text{cm}^2$ = microgram per square centimeter.
mg/kg WITH 50 cm^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
[Signature]
Cord de area



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 MX10-0867-6 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 MX10-0867-16 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.

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[Signature]
06



Report No.: MX10-0867-Adicionales

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 (Cr ⁶⁺) content | With reference to USEPA 3060, by EPA 7196 | BEQ160p5b | 2010-04-24 | MELA | 2,0 |

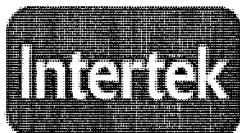
| No. de Muestra | Testing item | Ω Testing method | Quality control Batch: | Analysis Date: | Analyzed By: | Reporting limit ppm |
|----------------|---------------------------------------|---|------------------------|----------------|--------------|---------------------|
| | POLYBROMINATED BIPHENYLS (PBBs) | With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD | 2010-004440-PCL | 2010-05-22 | CONT | 50 |
| | POLYBROMINATED DIPHENYLETHERS (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 |
|----------------|-------------------|--|------------------------|----------------|--------------|---------------------|
| 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 |
| 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 |
| 8 | Lead (Pb) content | With reference to USEPA 3052MOD, by EPA 6010 | MET2010-4p51 | 2010-04-22 | JMR,DCL | 5,102 |
| 16 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p47,48 | 2010-04-23 | MARY,VLM | 6,85 |
| 18 | Lead (Pb) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p47,48 | 2010-04-22 | JMR,DCL | 4,901 |

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07



Report No.: MX10-0867-Adicionales

Date : 2010-05-31

| 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 |
| 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 |
| 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 |
| 8 | Cadmium(Cd) content | With reference to USEPA 3052MOD, by EPA 6010 | MET2010-4p51 | 2010-04-22 | JMR,DCL | 2,04 |
| 16 | Cadmium(Cd) content | With reference to USEPA 3050MOD, by EPA 7420 | MET2010-4p47,48 | 2010-04-23 | MARY,VLM | 1,37 |
| 18 | Cadmium(Cd) content | With reference to USEPA 3050MOD, by EPA 6010 | MET2010-4p47,48 | 2010-04-22 | JMR,DCL | 1,96 |

| 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 |
| 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 |
| 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 |
| 8 | Mercury (Hg) content | With reference to USEPA 7471MOD, by EPA 7471 | MET2010-4p46 | 2010-04-20 | UBM | 0,0833 |
| 16 | Mercury (Hg) content | With reference to USEPA 7471MOD, by EPA 7471 | MET2010-4p44 | 2010-04-20 | UBM | 0,082 |
| 18 | Mercury (Hg) content | With reference to USEPA 7471MOD, by EPA 7471 | MET2010-4p44 | 2010-04-20 | UBM | 0,082 |

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Test Report

Applicant: Littelfuse, Inc.
LIMA Technology Center,
Lipa City, Malvar, Batangas

Number : TWNC00195032

Date : Mar 21, 2011

Sample Description:

One (1) group of submitted samples said to be :
Part Description : Knob Insert
Part Number : 155004-3
Date Sample Received : Mar 15, 2011
Date Test Started : Mar 16, 2011

Test Conducted :

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

Authorized By:
On Behalf Of Intertek Testing Services
Taiwan Limited



K. Y. Liang
Director

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approval of the laboratory.

Test Conducted

(I) Test Result Summary :

| <u>Testing Item</u> | <u>Result (ppm)</u> | |
|---|------------------------|------------------------|
| | <u>(1)</u> | <u>(2)</u> |
| Heavy Metal | | |
| Cadmium (Cd) content | ND | ND |
| Lead (Pb) content | ND | ND |
| Mercury (Hg) content | ND | ND |
| Chromium VI (Cr ⁶⁺) content (mg/kg with 50cm ²) | Negative (< 0.02) | Negative (< 0.02) |

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
 ND = Not detected
 < = Less than
 mg/kg with 50cm² = milligram per kilogram with 50 square centimetre
 Negative = A negative test result indicated positive observation
 was not found at the time of testing.

Tested Components :

- (1) Silvery Metal Substrate
- (2) Silvery Plating

Responsibility Of Chemist : Irene Chiou / Kevin Liu / Cathy Chen

Date Sample Received : Mar 15, 2011

Testing Period : Mar 16, 2011 To Mar 21, 2011

(II) RoHS Requirement:

| <u>Restricted Substances</u> | <u>Limits</u> |
|---|----------------|
| Cadmium (Cd) Content | 0.01% (100ppm) |
| Lead (Pb) Content | 0.1% (1000ppm) |
| Mercury (Hg) Content | 0.1% (1000ppm) |
| Chromium VI (Cr ⁶⁺) Content | 0.1% (1000ppm) |

The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.

Test Conducted

(III) Test Method:

| <u>Testing Item</u> | <u>Testing Method</u> | <u>Reporting Limit</u> |
|---|---|-----------------------------------|
| Cadmium (Cd) content | With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. | 2 ppm |
| Lead (Pb) content | With reference to IEC 62321 edition 1.0:2008 in clause 8/9/10, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. | 2 ppm |
| Mercury (Hg) content | With reference to IEC 62321 edition 1.0:2008 in clause 7, by microwave digestion until the tested samples are totally dissolved and determined by ICP-OES. | 2 ppm |
| Chromium VI (Cr ⁶⁺) content | With reference to IEC 62321 edition 1.0:2008 in annex B, by boiling water extraction and determined by UV-Vis spectrophotometer. | 0.02 mg/kg with 50cm ² |

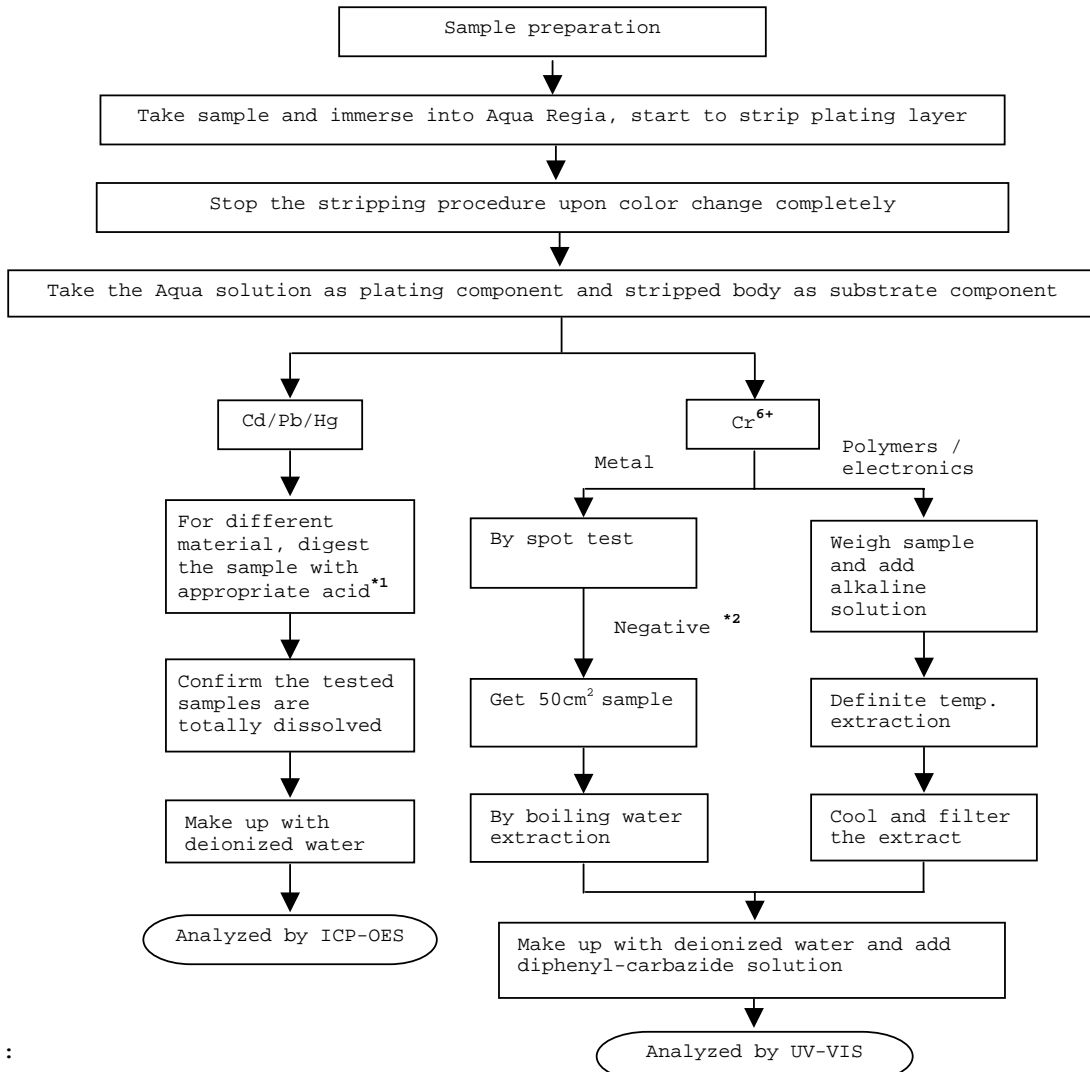
Remark: Reporting limit = Quantitation limit of analyte in sample

Test Conducted

(IV) Measurement Flowchart:

Test For Cd/Pb/Hg/Chromium (VI)

Reference Standard : IEC 62321 edition 1.0:2008



Remarks:

*1: List Of Appropriate Acid:

| Material | Acid Added For Digestion |
|-------------|--|
| Polymers | HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃ |
| Metals | HNO ₃ , HCl, HF |
| Electronics | HNO ₃ , HCl, H ₂ O ₂ , HBF ₄ |

*2: If the result of spot test is positive, Chromium VI would be determined as detected.

End Of Report

Test Conducted

Photo

