

ICP Test Report Certification Packet

Company name:	Littelfuse, Inc.
Product Series:	Midget Fuse
Product #:	FLQ020 Series
Issue Date:	August 20, 2010
2002/95/EC)-restricted so packing/packaging materi In addition, it is hereby re for unit parts, the packing/	by Littelfuse, Inc. that there is neither RoHS (EU Directive ubstance nor such use, for materials to be used for unit parts, for als, and for additives and the like in the manufacturing processes. Poorted to you that the parts and sub-materials, the materials to be used packaging materials, and the additives and the like in the manufacturing sed of the following components.
	Issued by: Jenny Stringlasan <global coordinator="" ehs=""></global>
(1) Parts, sub-materials a This document co	nd unit parts vers the FLQ RoHS-Compliant series products manufactured by
< Raw Materials U Please see Tab	
(2) The ICP data on all I	neasurable substances ropriate pages as identifed in Table 1
Remarks :	



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Material Part Number Raw Material Description	
1	090169	Filler-Silica Sand	3-12
2	692532	Solder	3-12
3	039xxx	Body-Melamine	13-20
4	685xxx	Element Pure Ag	21-28



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

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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

ILTA/003/GENS-F8



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

19) Serie KLDR Element 082649 20) Serie KLDR Cap 923-080

21) Serie KLDR Rejection Cap 923-08822) Serie KLDR Element 082149

Item No.

23) Serie KLDR Cap Solder 927-29324) Serie KLDR Disc 882-363-001

25) Serie KLDR Solder 69253226) Serie KLDR/FLQ Element 08238427) 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 00 20

Testing period 2010-03-29 to 2010-04-23

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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



Date: 2010-05-07

TEST	COND	JCTED
-------------	------	-------

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

CONCLUSION

Testing item	Conclusion	Failed component	Failed result	
	Pass			
Serie KLDR Element 082649	See Result summary			
0i- KI DD 0 002 000	Pass			
Serie KLDR Cap 923-080	See Result summary			
Serie KLDR Rejection Cap	failed	Cadmium	2284 mg/kg	
923-088	See Result summary	Lead	12380,0 mg/kg	
Serie KLDR Element 082149	Pass			
Selie KLDK Element 002149	See Result summary			
Sorio KI DB Con Solder 027 202	Pass			
Serie KLDR Cap Solder 927-293	See Result summary			
Serie KLDR Disc 882-363-001	Pass			
Selle KLDK Disc 882-303-001	See Result summary			
Serie KLDR Solder 692532	Pass			
Selle KLDK Solder 092552	See Result summary		. HHH	
Serie KLDR/FLQ Element	Pass			
082384	See Result summary			
Serie KLDR Filler silica 090169	Pass			
Delle REDIT Filler Silica 090 109	See Result summary			

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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

ILTA/003/GENS-F8



Date: 2010-05-07

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)				<u>Limit</u>	
1 LO I I LIVI	(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)		<u>Limit</u>
TESTING ITEM	(23)	(24)	(25)	<u> </u>
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
TEOTING TEEM	(26)	(27)	<u>=====</u>
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)

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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



Date: 2010-05-07

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

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 <u>MX10-0726-19</u> WERE TESTED TOGETHER.

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

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

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

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

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



It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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

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

www.intertek.com





Date: 2010-05-07

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 <u>MX10 726-27</u> WERE TESTED TOGETHER.

Test method:

Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	With reference to USEPA 3060, by EPA 7196	QHU2009-3p63	2010-04-06	MELAJLHS, MTCM	2,0

<u>No. de</u> <u>Muestra</u>	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

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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



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

No. de Muestra	Testing item	Ω Testing method	Quality control Batch:	<u>Analysis</u> <u>Date:</u>	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

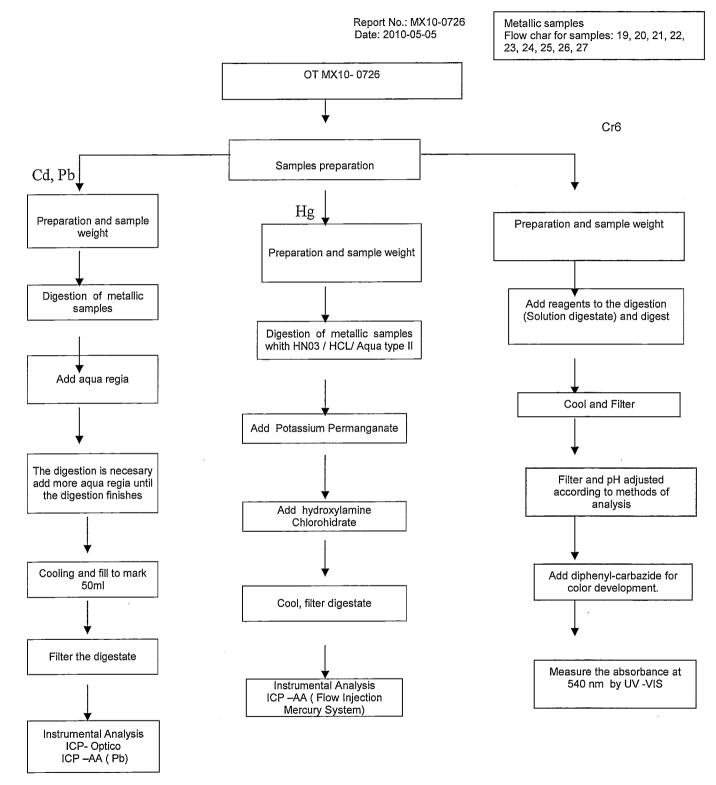
It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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

ILTA/003/GENS-F8





It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

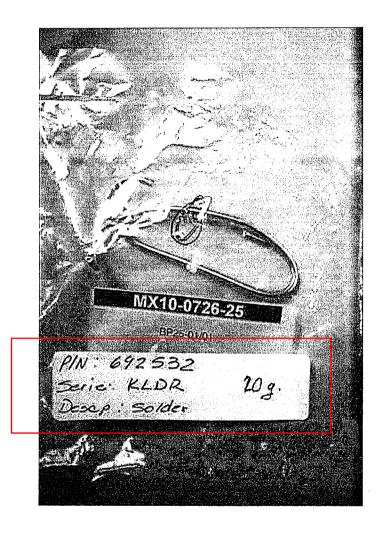
1°. Emission Junio 2005, 1° Revision Junio 26, 2009.

ILTA/003/GENS-F8

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

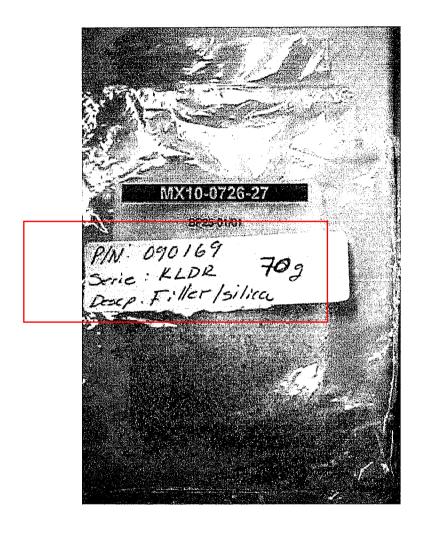


MX10-0726-25





MX10-0726-27





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



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

19) P/N: 082342 Serie: SPF

28) P/N: 909-161 / 909-171 Serie: FLQ/SPF

Item No.

29) P/N: 901-182 Serie: KLKR/BLS

31) P/N: 087284 Serie: SPF

Country of Origin

NP

Buyer's Name

NΡ

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	<u>Conclusion</u>	Failed component	Failed result	
19	P/N: 082342 Serie: SPF	Pass			
		See Result summary			
28	P/N: 909-161 / 909-171 Serie:	Pass			
2.0	FLQ/SPF	See Result summary			
29	D/N: 001 192 Corio: KI KB/BI C	Pass			
29	P/N: 901-182 Serie: KLKR/BLS	See Result summary			
31	D/N: 097294 Corio: CDE	Pass			
31	P/N: 087284 Serie: SPF	See Result summary			

002

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).



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 RE	SU	LT (ppm)	· .	Limit #	
TESTING IT EN	(19)	(28)		(29)	(31)	<u> </u>	
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)	1-1-1	ND		ND	ND	0,1% (1000 ppm)	
Monobromodiphenyl (MonoBDE)		ND		ND	ND		
Dibromodiphenyl (DiBDE)		ND	П	ND	ND		
Tribromodiphenyl (TriBDE)		ND		ND	ND		
Tetrabromodiphenyl (TetraBDE)		ND		ND	ND		
Pentabromodiphenyl (PentaBDE)		ND		ND	ND	and a	
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		

It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing

Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).



Date: 2010-05-31

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

1/1 south

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 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 <u>MX10 928-29</u> 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 <u>MX10 928-31</u> WERE TESTED TOGETHER.

004



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 <u>Testing method</u>	Quality control Batch:	Analysis Date:	Analyzed By:	Reporting limit ppm
	POLYBROMINAT ED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*
	POLYBROMINAT ED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004440-P CL	2010-04-28 2010-05-22	CONT	50*

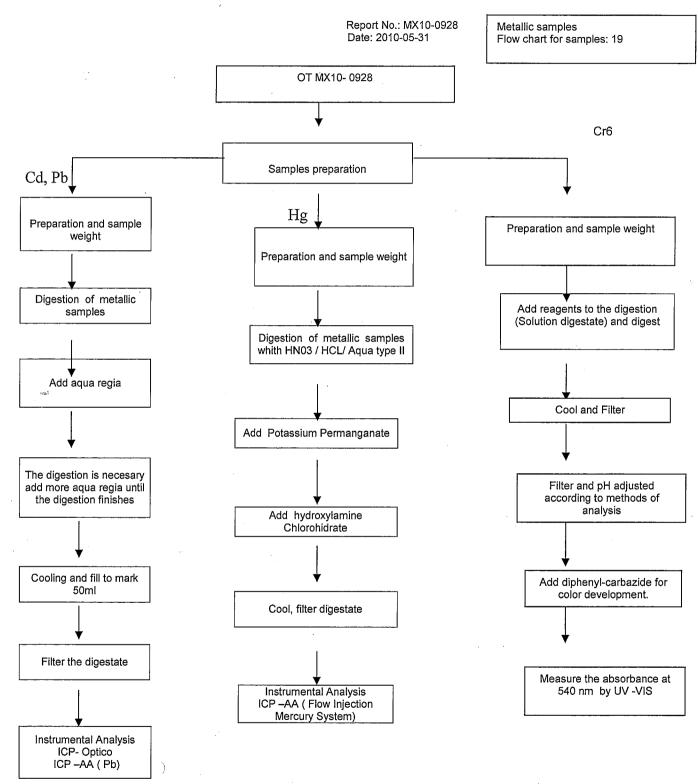
No. de Muestra	Testing item	Ω <u>Testing method</u>	Quality control Batch:	<u>Analysis</u> <u>Date:</u>	Analyzed By:	Reporting limit ppm
19	Lead (Pb) content	With reference to USEPA 3050MOD, by EPA 6010	MET2010-4p59	2010-04-29	MARY,DCL	4,902
28	Lead (Pb) content	With reference to USEPA 3052MOD, by EPA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

005





006

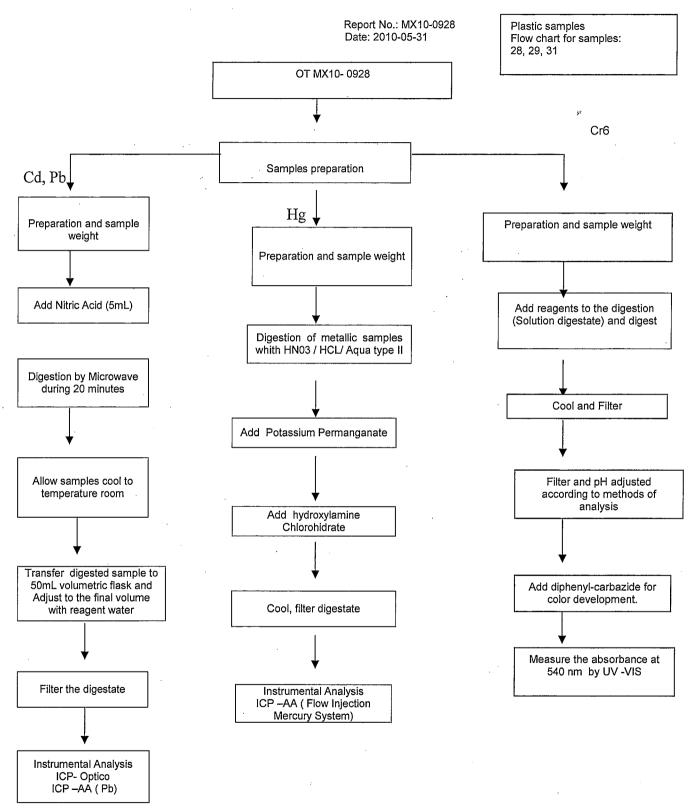
It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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





It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

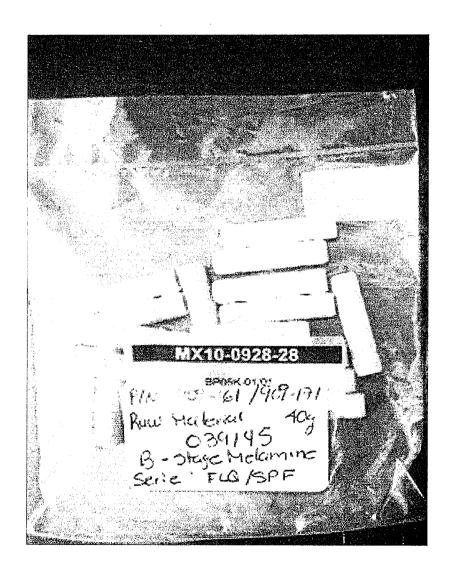
The results that appear in this report belong solely to (s) shows (s) analyzed (s).

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

007



MX10-0928-28





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:

Ing. Mario Falcón / Ing. Manuel Berain



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

1) N.P. 924-145

2) N.P. 080697

Item No.

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	çis day em		
4	N.P. 900-143	Pass See Result summary	60 40 TD		



TEST CONDUCTED

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

N.P. 924-145

N.P. 080697

3) N.P. 685406

4) N.P. 900-143

TEST RESULT SUMMARY FOR ROHS DIRECTIVE:

TESTING ITEM		Ω RESU	LT (ppm)	1		Limit
7 EO THE TIEM	. (1)	(2)	(3)		(4)	Larne
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	- 1875 -				ND 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)			200		ND	
POLYBROMINATED DIPHENYL ETHERS (PBDEs) Total	650 1000 1000 1000 1000 1000 1000 1000 1	200 Colores (100 C			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)				ļ	ND	
Nonabromodiphenyl (NonaBDE)					ND	
Decabromodiphenyl (DecaBDE)					ND	



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

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.





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

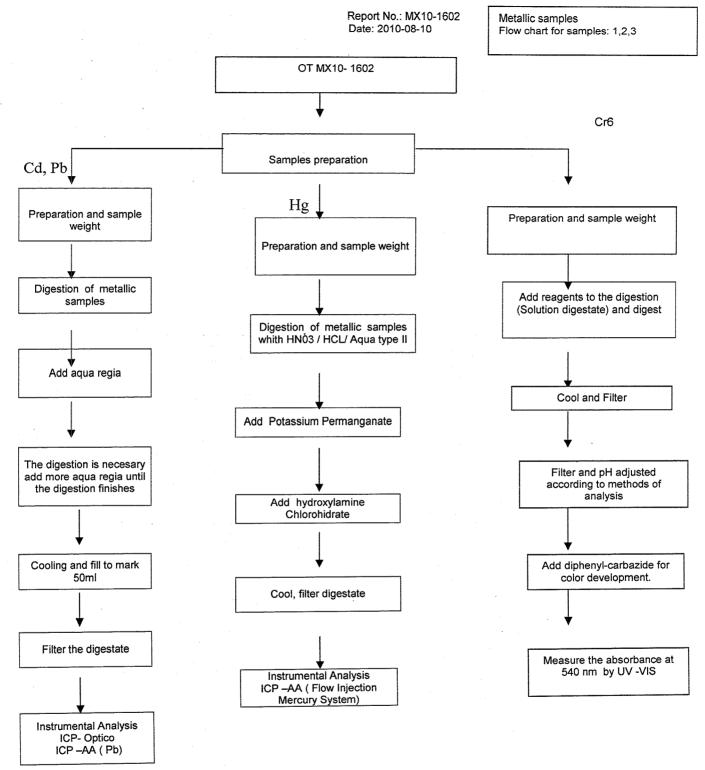
Sample number	Testing item	Ω Testing method	Quality control Batch:	<u>Analysis</u> <u>Date:</u>	Analyzed By:	Reporting limit ppm
4	POLYBROMINATED BIPHENYLS (PBBs)	Determined by GC-MSD	2010-004616-P CL	2010-08-09	▲ CONT	50,0
4	POLYBROMINATED DIPHENYL ETHERS (PBDEs)	Determined by GC-MSD	2010-004616-P CL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

Testing item	Ω Testing method	Quality control Batch:	Analysis Date:	Analyzed <u>By:</u>	Reporting limit ppm
Mercury (Hg) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p40	2010-08-04	JAPM	0,3
Mercury (Ha) content	With reference to USEPA 7471 by USEPA 7471	MET2010-32p40	2010-08-04	JAPM	0,3
	With reference to USEPA 7471 by USEPA 7471	MET2010-32p40	2010-08-04	JAPM	0,3
, , ,		MET2010-32p39	2010-08-04	JAPM	0,3
		Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471	Testing item Ω Testing method Batch: Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40	Testing item Ω Testing method Batch: Date: Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 2010-08-04 Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 2010-08-04 Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 2010-08-04	Testing item Ω Testing method Batch: Date: By: Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 2010-08-04 JAPM Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 2010-08-04 JAPM Mercury (Hg) content With reference to USEPA 7471 by USEPA 7471 MET2010-32p40 2010-08-04 JAPM



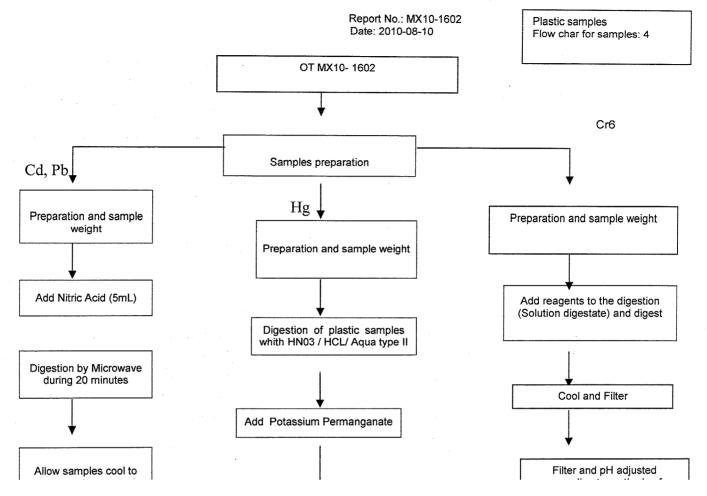


It is prohibited the total or partial reproduction of this document, as well as any modification or alteration in no of its parts without the previous authorization of Intertek Testing Services de México, S.A. de C.V. On the contrary Intertek reserves the right of coming from legal form against that (it is) they are responsible (s).

The results that appear in this report belong solely to (s) shows (s) analyzed (s).

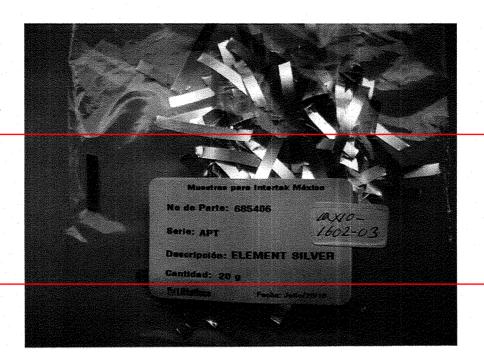
Blvd. Manuel Ávila Camacho No. 182 Col. Lomas de Chapultepec C.P. 11650, México, D.F. Tel.: 50912150 Fax: 55407863







MX10-1602





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

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

www.intertek.com