



TEST REPORT

REFERENCE NO.:MNLH18060984

APPLICANT: **MEGA PACKAGING CORPORATION.**
AIRSTRIIP ROAD, CANLUBANG INDUSTRIAL ESTATE,
CANLUBANG, CALAMBA, LAGUNA
ATTN: **NINIA D. CABALLERO**

JOB NO.: ERT10-04834
DATE: 29 JUNE 2018

SAMPLE DESCRIPTION:
ONE (1) SUBMITTED SAMPLE (100G) SAID TO BE EPS F-TYPE.

DATE SAMPLE RECEIVED: 11 JUNE 2018
DATE OF ANALYSIS: 13 - 27 JUNE 2018

TESTS CONDUCTED:
AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGES TWO TO FIVE.

CONCLUSION:

TESTED SAMPLE
SUBMITTED SAMPLE

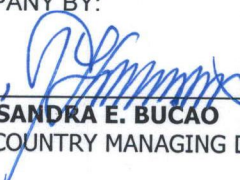
STANDARD
WITH REFERENCE TO TEST METHOD OF
IEC 62321 AND MAXIMUM CONCENTRATION
LIMITS QUOTED FROM
NEW RoHS DIRECTIVE 2015/863/EU

RESULT
PASS

CHECKED AND APPROVED BY:

SIGNED FOR THE COMPANY BY:


GLORIA L. LOPEZ, RCh
LABORATORY MANAGER /
PRC LIC. 9442


SANDRA E. BUCAR
COUNTRY MANAGING DIRECTOR

gkpe/rpu

Estimation of measurement uncertainty is available upon request.

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TESTS CONDUCTED:

(A) TEST RESULT SUMMARY:

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TESTING ITEM	RESULTS (ppm)
HEAVY METAL	
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	ND
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI)(Cr ⁶⁺) (mg/kg)	ND
POLYBROMINATED BIPHENYLS (PBBs) #	
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) #	
MONOBROMODIPHENYL ETHER (MonoBDE)	ND
DIBROMODIPHENYL ETHER (DiBDE)	ND
TRIBROMODIPHENYL ETHER (TriBDE)	ND
TETRABROMODIPHENYL ETHER (TetraBDE)	ND
PENTABROMODIPHENYL ETHER (PentaBDE)	ND
HEXABROMODIPHENYL ETHER (HexaBDE)	ND
HEPTABROMODIPHENYL ETHER (HeptaBDE)	ND
OCTABROMODIPHENYL ETHER (OctaBDE)	ND
NONABROMODIPHENYL ETHER (NonaBDE)	ND
DECABROMODIPHENYL ETHER (DecaBDE)	ND

REMARKS: mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE = ppm

ND = NOT DETECTED

= TESTS CONDUCTED AT INTERTEK THAILAND

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TESTED COMPONENT: EPS F-TYPE

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM NEW RoHS DIRECTIVE 2015/863/EU FOR HOMOGENEOUS MATERIAL.

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321-5 EDITION 1.0 : 2013-06 BY MICROWAVE DIGESTION UNTIL THE TESTED SAMPLES ARE TOTALLY DISSOLVED AND DETERMINED BY ICP-OES	5 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321-5 EDITION 1.0 : 2013-06 BY MICROWAVE DIGESTION UNTIL THE TESTED SAMPLES ARE TOTALLY DISSOLVED AND DETERMINED BY ICP-OES	13 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321-4 EDITION 1.0 : 2013-06 BY MICROWAVE DIGESTION UNTIL THE TESTED SAMPLES ARE TOTALLY DISSOLVED AND DETERMINED BY ICP-OES	13 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT	WITH REFERENCE TO IEC 62321-7 EDITION 1.0 : 2015, IN ANNEX C, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm
POLYBROMINATED BIPHENYLS (PBBs)	WITH REFERENCE TO IEC 62321-6 EDITION 1.0: 2015, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY	5 ppm
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC 62321-6 EDITION 1.0: 2015, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY	5 ppm

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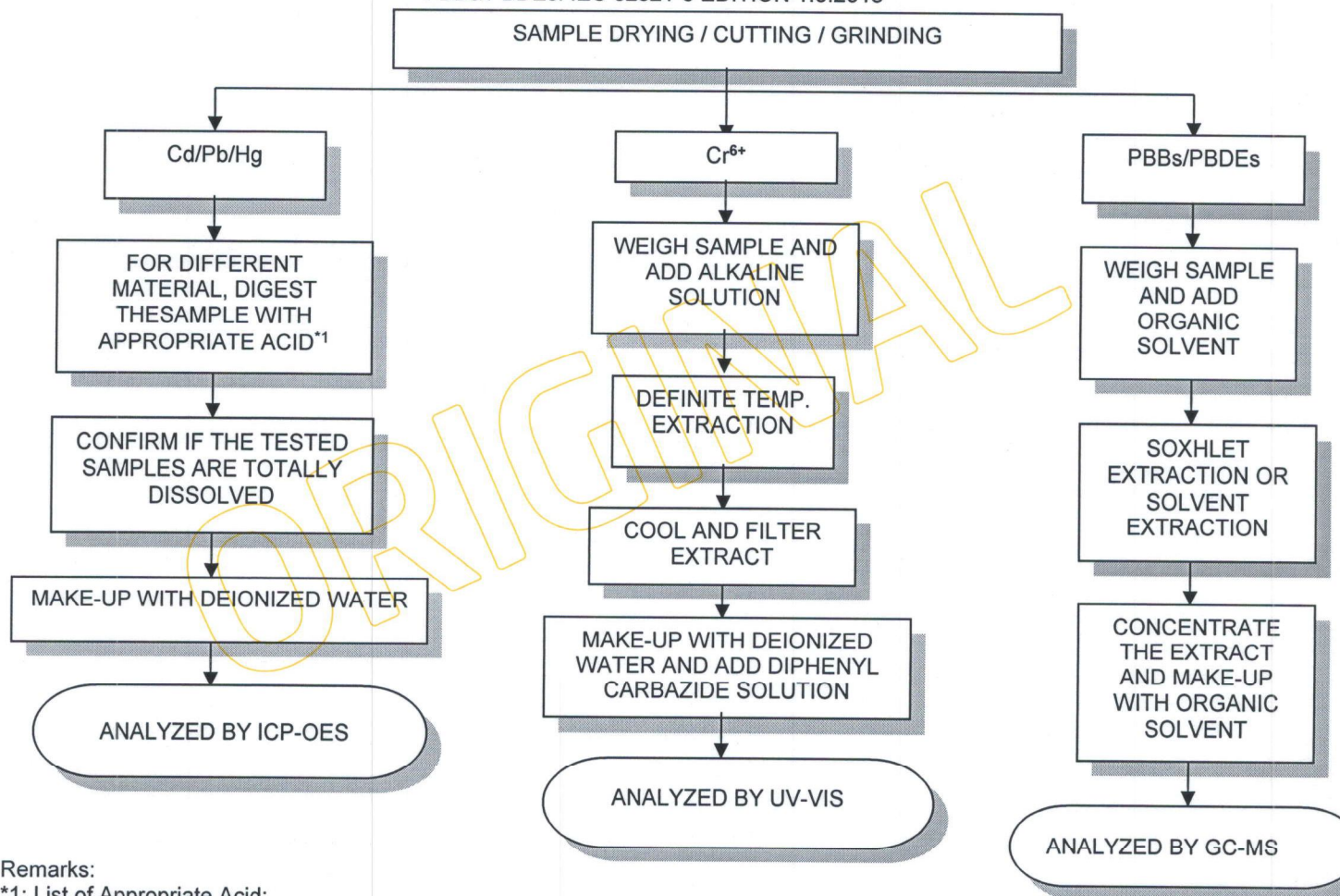
(D)MEASUREMENT FLOWCHART:

TEST FOR Cd / Pb / Hg / CHROMIUM (VI)/ PBBs/ PBDEs

REFERENCE STANDARD: Pb& Cd: IEC 62321-5 Ed.1.0:2013-06 / Hg: IEC 62321-4 Ed.1.0:2013-06

Cr⁶⁺: IEC 62321-7 Ed1.0:2015ANNEX C

PBBs/PBDEs: IEC 62321-6 EDITION 1.0:2015



Remarks:

*1: List of Appropriate Acid:

Material	Acid added for digestion
Polymers	HNO ₃ , HCl



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END OF REPORT

ORIGINAL

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