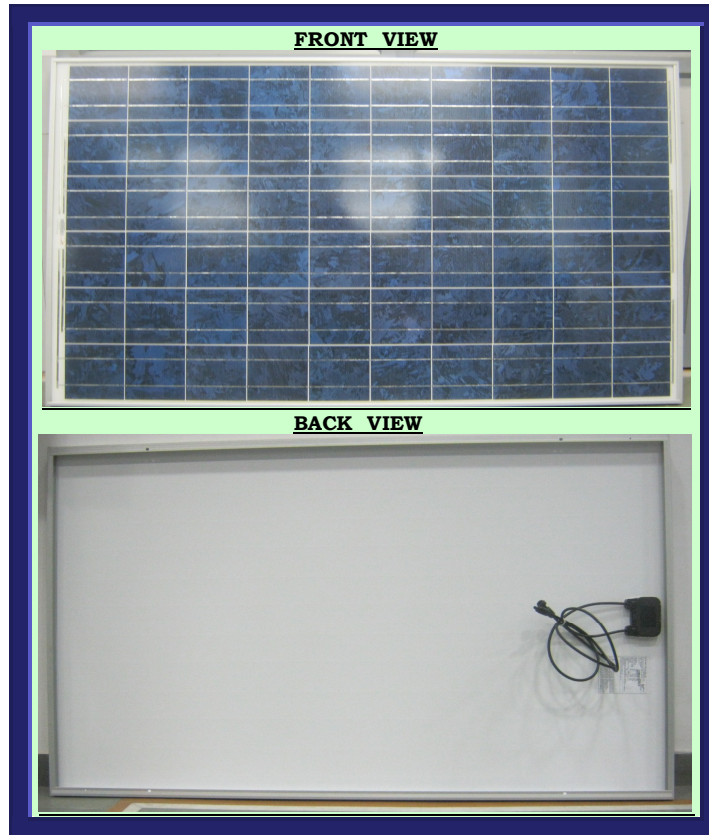


APPLICANT : **MOSEBAER SOLAR LTD.**
66-B, UDYOG VIHAR
GREATER NOIDA, GAUTAM BUDH NAGAR
UTTAR PRADESH
INDIA, 201306
ATTN : **MR. ASHWANI ARORA**

SAMPLE DESCRIPTION: THE SUBMITTED SAMPLE SAID TO BE “**SOLAR PANEL**”.
ARTICLE NO./PART NO : MBPV CAAP BB
VERSION : EH
MANUFACTURER’S NAME : M/S. MOSERBAER PHOTOVOLTAIC LTD.

PHOTO OF THE PRODUCT



TESTS CONDUCTED: AS REQUESTED BY THE APPLICANT FOR **RoHS Directive 2002/95/EC**, FOR DETAILS REFER TO ATTACHED PAGE(S).

CONCLUSION :- BASED ON THE TEST PERFORMED ON ALL HOMOGENEOUS MATERIALS, THE SUBMITTED SAMPLE COMPLY WITH THE **RoHS Directive 2002/95/EC** AND ITS SUBSEQUENT AMENDMENTS.

PREPARED & CHECKED BY :
FOR INTERTEK TESTING SERVICES, INDIA



MR. VIVEK SHARMA
SR. LAB MANAGER (CHEMICAL & HARDLINE)

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TEST REPORT

NUMBER : **DELCL1000286**

DATE : 31st JANUARY, 2011

TESTED COMPONENTS:-

- 1) (a) SOLAR CELL – BASE MATERIAL
- 1) (b) GREY COATING PART
- 2) TAB RIBBON
- 3) BUS RIBBON (INTERCONNECT)
- 4) FLUX
- 5) SOLDER WIRE
- 6) GLASS
- 7) POLYESTER FILM ADHESIVE TAPE
- 8) EVA
- 9) BACKSHEET - SOLMATE BTNE
- 10 (a) JUNCTION BOX -METAL TERMINAL (OUTER CABLE POLE)
- 10 (b) JUNCTION BOX -METAL WIRE
- 10 (c) JUNCTION BOX -WHITE INSULATION
- 10 (d) JUNCTION BOX -BLACK OUTER SHEATH
- 10 (e) JUNCTION BOX -RED RUBBER RING
- 10 (f) JUNCTION BOX -BIG PLASTIC HOLDER (OUTER THREAD)
- 10 (g) JUNCTION BOX -SMALL PLASTIC HOLDER (INNER THREAD)
- 10 (h) JUNCTION BOX -SMALL PLASTIC CLAMP
- 10 (i) JUNCTION BOX -BOX COVER (UPPER/LOWER PART)
- 10 (j) JUNCTION BOX -METAL TERMINAL (INSIDE BOX)
- 10 (k) JUNCTION BOX -SCREW
- 10 (l) JUNCTION BOX -DIODE (METAL PART)
- 10 (m) JUNCTION BOX -DIODE (BLACK NON-METAL PART)
- 10 (n) JUNCTION BOX -WHITE POLYMER SMALL SEAL
- 10 (o) JUNCTION BOX -RUBBER SEAL RING
- 11) SILICONE SEALANT FOR PV MODULES
- 12 (a) FRAME -METAL PART
- 12 (b) FRAME -ADHESIVE
- 13) SCREW
- 14) LOCTITE 271
- 15) LABEL (INSIDE LABEL)
- 16) LABEL (OUTSIDE LABEL)

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TEST REPORT

NUMBER : **DEL11000286**

DATE : 31st JANUARY, 2011

TEST CONDUCTED:

A] TEST RESULTS SUMMARY OF HEAVY METALS FOR RoHS DIRECTIVE 2002/95/EC:

TESTING ITEM	RESULTS 1(a)	RESULTS 1(b)	RESULTS [2]	RESULTS [3]	RESULTS [5]
CADMIUM (Cd) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)
LEAD (Pb) CONTENT IN PPM	488 ppm	ND (<2)	97 ppm	293 ppm	258 ppm
MERCURY (Hg) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)
CHROMIUM (VI) CONTENT IN PPM (BY SPOT TEST ON METAL)	-	-	ABSENT	ABSENT	ABSENT
CHROMIUM (VI) CONTENT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg with 50 cm ² in Testing Solution)	-	-	-	-	-
CHROMIUM (VI) CONTENT (BY ALKALINE DIGESTION ON NON-METAL IN PPM)	ND (<2)	ND (<2)	-	-	-

TESTING ITEM	RESULTS [6]	RESULTS 10[c]	RESULTS 10[d]	RESULTS 10[f]	RESULTS 10[g]
CADMIUM (Cd) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)
LEAD (Pb) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	19 ppm
MERCURY (Hg) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)
CHROMIUM (VI) CONTENT IN PPM (BY SPOT TEST ON METAL)	-	-	-	-	-
CHROMIUM (VI) CONTENT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg with 50 cm ² in Testing Solution)	-	-	-	-	-
CHROMIUM (VI) CONTENT (BY ALKALINE DIGESTION ON NON-METAL IN PPM)	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)

TESTING ITEM	RESULTS 10[h]	RESULTS 10[i]	RESULTS 10[m]	RESULTS 10[n]	RESULTS 12[a]
CADMIUM (Cd) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)
LEAD (Pb) CONTENT IN PPM	ND (<2)	ND (<2)	452 ppm	ND (<2)	ND (<2)
MERCURY (Hg) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)	ND (<2)
CHROMIUM (VI) CONTENT IN PPM (BY SPOT TEST ON METAL)	-	-	-	-	ABSENT
CHROMIUM (VI) CONTENT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg with 50 cm ² in Testing Solution)	-	-	-	-	-
CHROMIUM (VI) CONTENT (BY ALKALINE DIGESTION ON NON-METAL IN PPM)	ND (<2)	ND (<2)	ND (<2)	-	-

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TEST REPORT

NUMBER : **DELCL1000286**

DATE : 31st JANUARY, 2011

TESTING ITEM	RESULTS [12[b]	RESULTS [13]	RESULTS [15]	RESULTS [16]
CADMIUM (Cd) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)
LEAD (Pb) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)
MERCURY (Hg) CONTENT IN PPM	ND (<2)	ND (<2)	ND (<2)	ND (<2)
CHROMIUM (VI) CONTENT IN PPM (BY SPOT TEST ON METAL)	-	ABSENT	-	-
CHROMIUM (VI) CONTENT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg with 50 cm ² in Testing Solution)	-	-	-	-
CHROMIUM (VI) CONTENT (BY ALKALINE DIGESTION ON NON-METAL IN PPM)	ND (<2)	-	ND (<2)	ND (<2)

Remark : ppm = PART PER MILION

< = LESS THAN

ND = NOT DETECTED

B) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 - 111/54/CDV, BY ACID DIGESTION AND DETERMINED BY AAS/ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 - 111/54/CDV, BY ACID DIGESTION AND DETERMINED BY AAS/ICP-OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 - 111/54/CDV, BY ACID DIGESTION AND DETERMINED BY AAS/ICP-OES	2 ppm
CHROMIUM (VI) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 - 111/54/CDV, BY SPOT TEST.	PRESENT / ABSENT
CHROMIUM (VI) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 - 111/54/CDV, (BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER)	0.02 mg/kg with 50 cm ² (IN TESTING SOLUTION)
CHROMIUM (VI) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 - 111/54/CDV, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	2 ppm

NOTE : TESTS WERE CONDUCTED FOR Cr +6 WITH REFERENCE TO 111/54/CDV VERSION 2008.

C) RoHS REQUIREMENT :

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd) CONTENT	100 ppm
LEAD (Pb) CONTENT	1000 ppm (40000 ppm FOR BRASS/COPPER MATERIAL) (3500 ppm FOR STEEL) (4000 ppm FOR ALUMINIUM)
MERCURY (Hg) CONTENT	1000 ppm
CHROMIUM (VI) CONTENT	1000 ppm

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.

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**TESTS CONDUCTED:**

A] TEST RESULT SUMMARY OF BROMINATED FLAME RETARDANTS FOR RoHS DIRECTIVE 2002/95/EC:

TESTING ITEM	RESULT IN ppm 1[a]	RESULT IN ppm 1[b]	RESULT IN ppm [6]	RESULT IN ppm 10[c]	RESULT IN ppm 10[d]
POLYBROMINATED BIPHENYLS (PBBs) IN ppm					
MONOBROMOBIPHENYL (MonoBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DIBROMOBIPHENYL (DiBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TRIBROMOBIPHENYL (TriBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TETRABROMOBIPHENYL (TetraBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
PENTABROMOBIPHENYL (PentaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEXABROMOBIPHENYL (HexaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEPTA BROMOBIPHENYL (HeptaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
OCTABROMOBIPHENYL (OctaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
NONA BROMOBIPHENYL (NonaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DECABROMOBIPHENYL (DecaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
POLYBROMINATED DIPHENYL ETHERS (PBDEs) IN ppm					
MONOBROMODIPHENYL ETHER (MonoBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DIBROMODIPHENYL ETHER (DiBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TRIBROMODIPHENYL ETHER (TriBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TETRABROMODIPHENYL ETHER (TetraBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
PENTABROMODIPHENYL ETHER (PentaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEXABROMODIPHENYL ETHER (HexaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEPTABROMODIPHENYL ETHER (HeptaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
OCTABROMODIPHENYL ETHER (OctaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
SUM OF NONABROMODIPHENYL ETHERS (NonaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DECABROMODIPHENYL ETHER (DecaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)

TESTING ITEM	RESULT IN ppm 10[f]	RESULT IN ppm 10[g]	RESULT IN ppm 10[h]	RESULT IN ppm 10[i]	RESULT IN ppm 10[m]
POLYBROMINATED BIPHENYLS (PBBs) IN ppm					
MONOBROMOBIPHENYL (MonoBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DIBROMOBIPHENYL (DiBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TRIBROMOBIPHENYL (TriBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TETRABROMOBIPHENYL (TetraBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
PENTABROMOBIPHENYL (PentaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEXABROMOBIPHENYL (HexaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEPTA BROMOBIPHENYL (HeptaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
OCTABROMOBIPHENYL (OctaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
NONA BROMOBIPHENYL (NonaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DECABROMOBIPHENYL (DecaBB)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
POLYBROMINATED DIPHENYL ETHERS (PBDEs) IN ppm					
MONOBROMODIPHENYL ETHER (MonoBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DIBROMODIPHENYL ETHER (DiBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TRIBROMODIPHENYL ETHER (TriBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
TETRABROMODIPHENYL ETHER (TetraBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
PENTABROMODIPHENYL ETHER (PentaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEXABROMODIPHENYL ETHER (HexaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
HEPTABROMODIPHENYL ETHER (HeptaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
OCTABROMODIPHENYL ETHER (OctaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
SUM OF NONABROMODIPHENYL ETHERS (NonaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)
DECABROMODIPHENYL ETHER (DecaBDE)	ND (<5)	ND (<5)	ND (<5)	ND (<5)	ND (<5)

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TEST REPORT

NUMBER : **DELCL11000286**DATE : 31st JANUARY, 2011

TESTING ITEM	RESULT IN ppm 12[b]	RESULT IN ppm [15]	RESULT IN ppm [16]
POLYBROMINATED BIPHENYLS (PBBs) IN ppm			
MONOBROMOBIPHENYL (MonoBB)	ND (<5)	ND (<5)	ND (<5)
DIBROMOBIPHENYL (DiBB)	ND (<5)	ND (<5)	ND (<5)
TRIBROMOBIPHENYL (TriBB)	ND (<5)	ND (<5)	ND (<5)
TETRABROMOBIPHENYL (TetraBB)	ND (<5)	ND (<5)	ND (<5)
PENTABROMOBIPHENYL (PentaBB)	ND (<5)	ND (<5)	ND (<5)
HEXABROMOBIPHENYL (HexaBB)	ND (<5)	ND (<5)	ND (<5)
HEPTA BROMOBIPHENYL (HeptaBB)	ND (<5)	ND (<5)	ND (<5)
OCTABROMOBIPHENYL (OctaBB)	ND (<5)	ND (<5)	ND (<5)
NONA BROMOBIPHENYL (NonaBB)	ND (<5)	ND (<5)	ND (<5)
DECABROMOBIPHENYL (DecaBB)	ND (<5)	ND (<5)	ND (<5)
POLYBROMINATED DIPHENYL ETHERS (PBDEs) IN ppm			
MONOBROMODIPHENYL ETHER (MonoBDE)	ND (<5)	ND (<5)	ND (<5)
DIBROMODIPHENYL ETHER (DiBDE)	ND (<5)	ND (<5)	ND (<5)
TRIBROMODIPHENYL ETHER (TriBDE)	ND (<5)	ND (<5)	ND (<5)
TETRABROMODIPHENYL ETHER (TetraBDE)	ND (<5)	ND (<5)	ND (<5)
PENTABROMODIPHENYL ETHER (PentaBDE)	ND (<5)	ND (<5)	ND (<5)
HEXABROMODIPHENYL ETHER (HexaBDE)	ND (<5)	ND (<5)	ND (<5)
HEPTABROMODIPHENYL ETHER (HeptaBDE)	ND (<5)	ND (<5)	ND (<5)
OCTABROMODIPHENYL ETHER (OctaBDE)	ND (<5)	ND (<5)	ND (<5)
SUM OF NONABROMODIPHENYL ETHERS (NonaBDE)	ND (<5)	ND (<5)	ND (<5)
DECABROMODIPHENYL ETHER (DecaBDE)	ND (<5)	ND (<5)	ND (<5)

REMARK: < = LESS THAN ND = NOT DETECTED; ppm = PARTS PER MILLION; MIN DETECTION LIMIT = 5 ppm.

B) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
POLYBROMINATED BIPHENYLS (PBB) & POLYBROMINATED DIPHENYL ETHERS (PBDE)	"WITH REFERENCE TO IEC 62321- 111/95/CDV, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY."	5 ppm

C) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)
POLYBROMINATED DIPHENYL EHTERS (PBDEs)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS.

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1 SCREENING TEST BY XRF SPECTROSCOPY

DETERMINATION OF LEVELS OF REGULATED SUBSTANCES IN ELECTROTECHNICAL PRODUCTS, ELEMENTS OF CADMIUM (Cd), LEAD (Pb), MERCURY (Hg), CHROMIUM (Cr) AND BROMINE (Br) CONTENT WERE MEASURED BY XRF SPECTROSCOPY SUBSTANCES.

(A) TEST RESULT SUMMARY:

SCREENED COMPONENTS	RESULTS IN ppm				
	Pb	Cd	Cr	Hg	Br
4.	ND	ND	ND	ND	ND
5.*	425	90*	2500*	330	NA
7.	ND	ND	ND	ND	ND
8.	ND	ND	ND	ND	ND
9.	ND	ND	ND	ND	ND
10(a).	ND	ND	468	ND	NA
10(b).	209	ND	453	ND	NA
10(e).	ND	60	ND	ND	ND
10(j).	222	ND	446	ND	ND
10(k).	ND	ND	ND	ND	NA
10(l).	228	70	547	ND	NA
10(n).*	ND	98*	156	ND	ND
10(o).	ND	ND	ND	ND	ND
11.	ND	57	ND	ND	ND
14.	ND	ND	ND	ND	ND

* - Results Are Inconclusive In XRF Screening Analysis. Hence The Sample Have Been Analysed By Wet Chemistry Method. Results Are Shown In The Corresponding Tables.

NAME OF OPERATION: XRF SPECTROSCOPY

REMARK: ND = NOT DETECTED
DETECTED = BELOW THE LOWER SCREENING LIMIT OF TABLE (B) AND PASS
NA = NOT APPLICABLE

(B) XRF SCREENING LIMITS IN mg/kg FOR REGULATED ELEMENTS IN VARIOUS MATRIES.

ELEMENT	POLYMER MATERIALS	METALLIC MATERIALS	COMPOSITE MATERIALS
Cd	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Hg	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 300 < X	NOT APPLICABLE	P ≤ 250 < X

P = PASS
X = INCONCLUSIVE RESULT
F = FAIL
mg/kg = MILLIGRAM PER KILOGRAM = ppm

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(C) ESTIMATED DETECTION LIMITS IN mg/kg FOR REGULATED ELEMENTS IN VARIOUS MATRICES.

ELEMENT	POLYMER MATERIALS	METALLIC MATERIALS	COMPOSITE MATERIALS
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	NOT APPLICABLE	200

DISCLAIMERS:

THIS XRF SCREENING REPORT IS FOR REFERNECE PURPOSES ONLY. THE APPLICANT SHALL MAKE ITS/HIS/HER OWN JUDGEMENT AS TO WHETHER THE INFORMATION PROVIDED IN THIS XRF SCREENING REPORT IS SUFFICIENT FOR ITS/HIS/HER PURPOSES.

THE RESULTS SHOWN IN THIS XRF SCREENING REPORT WILL DIFFER BASED ON VARIOUS FACTORS, INCLUDING BUT NOT LIMITED TO, THE SAMPLE SIZE, THICKNESS, AREA, SURFACE FLATNESS, EQUIPMENT PARAMETERS AND MATRIX EFFECT (e.g. PLASTIC, RUBBER, METAL, GLASS, CERAMIC ETC.). FURTHER WET CHEMICAL PRE-TREATMENT WITH RELEVANT CHEMICAL EQUIPMENT ANALYSIS ARE REQUIRED TO OBTAIN QUANTITATIVE DATA.

END OF THE TEST REPORT

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