



Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company

Members of :

American National Standards Institute
American Society for Testing and Materials
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

TEST REPORT

NUMBER: HKGH00779109

APPLICANT: RUBADUE WIRE CO., INC.
1301 NORTH 17TH AVE.,
GREELEY CO 80631
USA

DATE: Nov 06, 2008

SAMPLE DESCRIPTION:

SEVEN (7) SUBMITTED SAMPLES SAID TO BE **SINGLE AND MULTI LAYER INSULATED WINDING WIRE
FEP COVER WITH TIN COPPER WIRE OR BARE COPPER WIRE (WITH BLACK, ORANGE, WHITE,
GREEN, VIRGIN AND BLUE).**

REFERENCE NO. : SXX (A,B, OR C) XXFX-(2 OR GREATER), DXX (A, B, OR C)
XXFXX-(2 OR GREATER), TXX (A,B, OR C) XXFXXX-(2 OR
GREATER).

COUNTRY OF ORIGIN : USA.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

FOR AND ON BEHALF OF :
INTERTEK TESTING SERVICES HK LTD.

KAREN S.C. NG
GENERAL MANAGER





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(A) TEST RESULT SUMMARY FOR ROHS DIRECTIVE :

TESTING ITEM	RESULT
	(1/2/3/4/5/6/7/8)
CADMIUM (Cd) CONTENT (ppm)	ND (<2)
LEAD (Pb) CONTENT (ppm)	ND (<2)
MERCURY (Hg) CONTENT (ppm)	ND (<2)
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (ppm) (FOR NON-METAL)	ND (<1)
POLYBROMINATED BIPHENYLS (PBBs) (ppm)	ND (<5)
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (ppm)	ND (<5)
POLYBROMINATED BIPHENYLS (PBBs)	
MONOBROMOBIPHENYL (MonoBB) (ppm)	ND (<5)
DIBROMOBIPHENYL (DiBB) (ppm)	ND (<5)
TRIBROMOBIPHENYL (TriBB) (ppm)	ND (<5)
TETRABROMOBIPHENYL (TetraBB) (ppm)	ND (<5)
PENTABROMOBIPHENYL (PentaBB) (ppm)	ND (<5)
HEXABROMOBIPHENYL (HexaBB) (ppm)	ND (<5)
HEPTABROMOBIPHENYL (HeptaBB) (ppm)	ND (<5)
OCTABROMOBIPHENYL (OctaBB) (ppm)	ND (<5)
NONABROMOBIPHENYL (NonaBB) (ppm)	ND (<5)
DECABROMOBIPHENYL (DecaBB) (ppm)	ND (<5)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	
MONOBROMODIPHENYL ETHER (MonoBDE) (ppm)	ND (<5)
DIBROMODIPHENYL ETHER (DiBDE) (ppm)	ND (<5)
TRIBROMODIPHENYL ETHER (TriBDE) (ppm)	ND (<5)
TETRABROMODIPHENYL ETHER (TetraBDE) (ppm)	ND (<5)
PENTABROMODIPHENYL ETHER (PentaBDE) (ppm)	ND (<5)
HEXABROMODIPHENYL ETHER (HexaBDE) (ppm)	ND (<5)
HEPTABROMODIPHENYL ETHER (HeptaBDE) (ppm)	ND (<5)
OCTABROMODIPHENYL ETHER (OctaBDE) (ppm)	ND (<5)
NONABROMODIPHENYL ETHER (NonaBDE) (ppm)	ND (<5)
DECABROMODIPHENYL ETHER (DecaBDE) (ppm)	ND (<5)

ppm = PARTS PER MILLION

< = LESS THAN

ND = NOT DETECTED





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REMARK : AS REQUESTED BY THE APPLICANT, THE TESTED COMPONENTS (1), (2), (3), (4), (5), (6), (7) AND (8) WERE TESTED TOGETHER.

TESTED COMPONENTS :

- (1) GREEN PLASTIC (WIRE INSULATOR).
- (2) SILVER COLOR METAL (WIRE).
- (3) WHITE PLASTIC (BEADS).
- (4) GREEN PLASTIC (BEADS).
- (5) ORANGE PLASTIC (BEADS).
- (6) BLACK PLASTIC (BEADS).
- (7) TRANSPARENT PLASTIC (BEADS).
- (8) BLUE PLASTIC (BEADS).

(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)

(C) TEST METHOD :

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO BS EN1122 / US EPA 3050B/ US EPA3052, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO US EPA 3050B / US EPA 3052, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO US EPA 3052, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO US EPA 3060A & 7196A, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO US EPA 3540C, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND HPLC	5 ppm

DATE SAMPLE RECEIVED : OCT 20, 2008

TESTING PERIOD : OCT 20, 2008 TO NOV 04, 2008

END OF REPORT

