



Test Report

No. 2099334/EC

Date : Aug 17 2009

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ARMOUR HONG KONG LTD.
UNIT 2003, VALLEY CENTRE
80-82 MORRISON HILL ROAD
WAN CHAI
HONG KONG

The following sample was submitted and identified on behalf of the client as :
LSOH CABEL

SGS Job No. : 1279806
Sample Receiving Date : JUL 30 2009
Testing Period : JUL 30 – AUG 15 2009

Test Requested : IEC 60754-2:1991 Test on gases evolved during combustion of electric cables — Part 2: Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity (Amendment 1 1997).

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Test Conclusion : When tested as specified, the specimen is deemed to pass the recommended pH value and conductivity criteria (SEE REMARK).

Signed for and on behalf of
SGS Hong Kong Ltd

Hui Ying Ngai, Alex
Section Manager

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Test result:

Pretreatment

Temperature : 23±2°C	Humidity : 50±5% R.H.	16 hours
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Trial	Specimen mass (g)	pH	pH		Conductivity (uS/mm)	Conductivity, uS/mm	
			$\bar{\sigma}$	Cv		$\bar{\sigma}$	Cv
1	1.0013	12.52	0.03	0.25%	1000.0	0.00	0.00%
2	1.0009	12.45			1000.0		
3	1.0004	12.51			1000.0		
Average		12.4			1000.0		

Sample Description:

1. Pink Plastic

Trial	Specimen mass (g)	pH	pH		Conductivity (uS/mm)	Conductivity, uS/mm	
			$\bar{\sigma}$	Cv		$\bar{\sigma}$	Cv
1	1.0040	12.50	0.04	0.32%	528.3	0.73	0.14%
2	1.0020	12.41			527.4		
3	1.0041	12.49			529.2		
Average		12.47			528.3		

Sample Description:

2. Black Plastic

Trial	Specimen mass (g)	pH	pH		Conductivity (uS/mm)	Conductivity, uS/mm	
			$\bar{\sigma}$	Cv		$\bar{\sigma}$	Cv
1	1.0012	12.55	0.02	0.17%	1000.0	0.00	0.00%
2	1.0010	12.50			1000.0		
3	1.0004	12.51			1000.0		
Average		12.52			1000.0		

Sample Description:

3. Red Plastic

- Note:
1. $\bar{\sigma}$ = Standard deviation of PH or Conductivity = less than
 2. Cv = Coefficient of variation of PH or Conductivity

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Test result:

Pretreatment

Temperature : 23±2°C	Humidity : 50±5% R.H.	16 hours
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Trial	Specimen mass (g)	pH	pH		Conductivity (uS/mm)	Conductivity, uS/mm	
			\bar{S}	Cv		\bar{S}	Cv
1	0.9871	12.50	0.00	0.04%	978.0	1.54	0.16%
2	1.0001	12.50			974.3		
3	1.0031	12.51			975.5		
Average		12.50			975.9		

Sample Description:

4. Green Plastic

Trial	Specimen mass (g)	pH	pH		Conductivity (uS/mm)	Conductivity, uS/mm	
			\bar{S}	Cv		\bar{S}	Cv
1	1.0031	12.09	0.03	0.28%	411.3	3.97	0.97%
2	1.0025	12.07			403.6		
3	1.0021	12.15			412.6		
Average		12.10			409.2		

Sample Description:

5. White Plastic

- Note:
1. \bar{S} = Standard deviation of PH or Conductivity = less than
 2. Cv = Coefficient of variation of PH or Conductivity

Test result:

Weighted value calculation

Item	Mass of unit (g)	Wi	pH	pH'	C, uS/mm	C', uS/mm
1	0.5671	0.56	12.49	12.44	1000.0	3.0
2	0.1232	0.12	12.47		528.3	
3	0.1141	0.11	12.52		1000.0	
4	0.1145	0.11	12.50		975.9	
5	0.1044	0.10	12.10		409.2	

Equation, weighted value of pH, pH' :

$$pH' = \lg \frac{\sum Wi}{\sum (Wi/10^x)} ; \text{ among them,}$$

x is pH value of each non-metal materials;

Equation, Conductivity :

$$C' = \lg \frac{\sum CiWi}{\sum Wi} ; \text{ among them,}$$

Ci is conductivity of each non-metal materials;

Wi is weight per unit length of cable, approximately measured upon balance method;

Remark:

1. The weighted PH value should not be less than 4.3, when related to 1 litre of water;
2. The weighted value of conductivity should not exceed 10uS/mm.
3. All the results were obtained by SGS affiliate.

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Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***

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