

**SHANGHAI RICHENG ELECTRONICS CO., LTD**  
SHANGHAI OLD HUMIN ROAD CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

**Sample Description:** WIRING DUCT

**SGS Ref No.:** 10358624

**Test Requested:**

ASTM E662:2003 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

**Test Results:** --- See attached sheet ---

**Test Period:**

Sample Receiving Date : AUG.13, 2010

Test Performing Date : AUG.13, 2010 TO AUG.19, 2010

Signed for and on behalf of  
SGS-CSTC Co., Ltd.



Allen Zou  
Technical Supervisor

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**AJHG 165792**



### I. Test conducted

This test is conducted according to ASTM E662:2003 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

### II. Sample details

Description	Wiring Duct
Color	Gray
Dimensions	75 mm×75 mm×1.8mm
Condition prior to testing	Prior to testing, the wiring duct , dried for 24 h at 60±3°C and then 23±3°C and RH 55±5% till constant weight
Irradiance Exposure	2.50±0.05 W/cm <sup>2</sup>

### III. Test results

#### 1) Flaming mode

	Test Specimen			Flaming dripping or flaming running	Average Optical density
	#1	#2	#3		
Temperature of chamber wall (°C)	33	33	34	Flaming running	
$D_{S\ 1.5}$	426	418	435		426.3
$D_{S\ 4.0}$	652	630	615		632.3
$D_m$	662	650	658		656.7
$t_{D_m}$	260	285	280		
$Dm(corr)$	160	110	98		122.7
Observations	Color of the smoke black				

To be continued...

加上单位

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2) Non - Flaming mode

	Test Specimen			Flaming dripping or flaming running	Average Optical density
	#1	#2	#3		
Temperature of chamber wall (°C)	33	33	34	NO	
$D_{S\ 1.5}$	18	32	21		23.7
$D_{S\ 4.0}$	189	195	201		195.0
$D_m$	457	425	438		440
$t_{D_m}$	730	750	720		
$Dm(corr)$	23	18	20		20.3
Observations	Color of the smoke black				

**Note:**

→ 加上单位

$D_{S\ 1.5}$  = Specific optical density at 1.5 minutes;

$D_{S\ 4.0}$  = Specific optical density at 4.0 minutes;

$D_m$  = maximum specific optical density;

$Dm(corr)$  = corrected  $D_m$ ,  $Dm(corr) = D_m - D_c$

$t_{D_m}$  = time of  $D_m$  occurrence

**STATEMENTS:**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

The specimen was supplied by the sponsor and SGS-CSTC ANJI Branch was not involved in any selection or sampling procedure.

To be continued....

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### Photo Appendix:



\*\*\*End of Report\*\*\*

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