

## Test Report

No: 10518879(11a) A4

Date: 21-Jul-2021

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cab Produkttechnik GmbH & Co. KG  
Wilhelm-Schickard-Str.14, 76131 Karlsruhe, Germany

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

Sample Name : W91

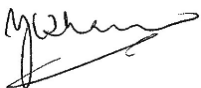
Sample Receiving Date : 07-Jul-2021  
Testing Period : 07-Jul-2021 to 21-Jul-2021

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

Signed for and on behalf of  
SGS Testing & Control Services Singapore Pte Ltd



Y.C. Tham  
Technical Manager, Multi-Lab



Test Location: 30 Boon Lay Way, #02-02, Singapore 609957

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**Test Result(s):**

Sample Description : Black Film

Test Item(s):	Unit	Method	Results	MDL
<b>Halogen</b>				
Halogen - Bromine (Br)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	n.d.	50
Halogen - Chlorine (Cl)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	n.d.	50
Halogen - Fluorine (F)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	n.d.	50
Halogen - Iodine (I)	mg/kg	With reference to BS EN 14582. Analysis was performed by IC	n.d.	50

Note: (1) mg/kg = ppm ; 0.1wt% = 1000ppm  
 (2) n.d.= Not Detected  
 (3) MDL = Method Detection Limit

Lab Analyst(s): Jenny

**For your information, the standard IEC 61249-2-21:2003** regarding materials for printed circuit and others interconnection structures, requires limits for halogen contents on epoxide isolating resins, the received sample complies with the limits described below:

- Maximum content of total chlorine : 900ppm
- Maximum content of total bromine : 900ppm
- Maximum content of total halogens : 1500ppm

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**Sample photo:**

Sample Description : Black Film

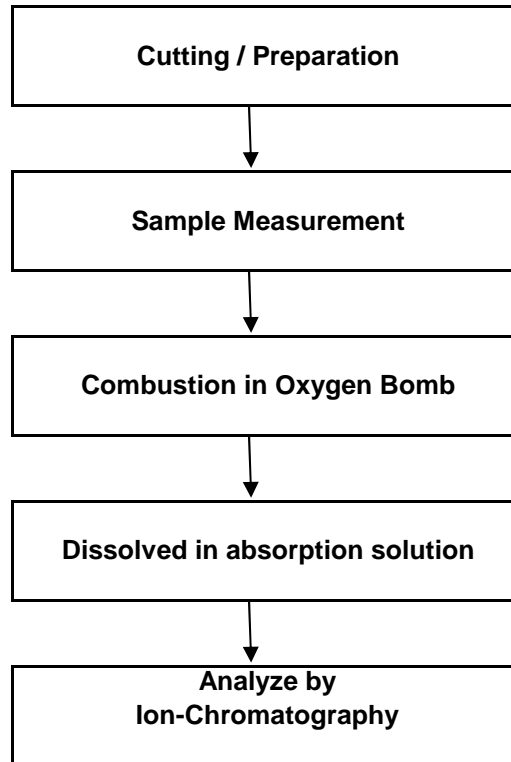
SGS authenticate the photo on original report only



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### Process Flow of BS EN 14582 (Halogen Analysis)



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

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