



# Test Report

No. F690101/LF-CTSAYAA18-32461

Issued Date: 2018. 06. 20

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**LG HAUSYS CO., LTD.**

275 Deongmang-ro, Onyang-eup  
Ulju-gun, Ulsan  
Korea



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

**SGS File No.** : AYAA18-32461  
**Product Name** : LG DPM  
**Item/Part Name** : N/A  
**Client reference data** : LD 4900 Series  
**Received Date** : 2018. 06. 12  
**Test Period** : 2018. 06. 12 ~ 2018. 06. 20  
**Test Requested** : Eight (8) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on March 8, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH  
**Report Comments** : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.  
**Test Method** : Please refer to next page(s).  
**Test Result(s)** : Please refer to next page(s).

**SGS Korea Co., Ltd**

**Jeff Jang / Chemical Lab Mgr**

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F415 Version 3

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Member of the SGS Group (Société Générale de Surveillance)



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## Test Method:

SGS In-House method - Analyzed by ICP-OES, PLM, UV/VIS, LC/MS ,GC/MS and colorimetric method

## Remarks:

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
[http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p\\_p\\_id=substancetypelist\\_WAR\\_substanceportlet&p\\_p\\_lifecycle=0&p\\_p\\_state=normal&p\\_p\\_mode=view&p\\_p\\_col\\_id=column-1&p\\_p\\_col\\_pos=2&p\\_p\\_col\\_count=4&substancetypelis](http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p_p_id=substancetypelist_WAR_substanceportlet&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_pos=2&p_p_col_count=4&substancetypelis)  
(Proposals to identify SVHC consultations)  
This list is under evaluation by ECHA.
2. Test results in this report are based on the tested sample. This report refers to testing result of composite material group by equal weight proportion. The material in each composite test group may come from more than one article.

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## Test Result(s)

No.	Substance Name	CAS number	EC number	Reporting Limit (%)	Concentration (%)
1	Benzo[ghi]perylene (BgP)	191-24-2	205-883-8	0.05	N.D.
2	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.05	N.D.
3	Disodium octaborate	12008-41-2	234-541-0	0.005	N.D.
4	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.05	N.D.
5	Ethylenediamine	107-15-3	203-468-6	0.05	N.D.
6	Lead	7439-92-1	231-100-4	0.005	N.D.
7	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.05	N.D.
8	Terphenyl hydrogenated	61788-32-7	262-967-7	0.05	N.D.

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**Note:**

1. RL = Reporting Limit

2. N.D. = Not detected (lower than RL)

N.A. = Not applicable for respective material type.

The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.

3. Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006. For detail information, Detail explanation is available at the following link:

[http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p\\_p\\_id=substancetypelist\\_WAR\\_substanceportlet&p\\_p\\_lifecycle=0&p\\_p\\_state=normal&p\\_p\\_mode=view&p\\_p\\_col\\_id=column-1&p\\_p\\_col\\_pos=2&p\\_p\\_col\\_count=4&substancetypelis](http://echa.europa.eu/proposals-to-identify-substances-of-very-high-concern-previous-consultations?p_p_id=substancetypelist_WAR_substanceportlet&p_p_lifecycle=0&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_pos=2&p_p_col_count=4&substancetypelis)

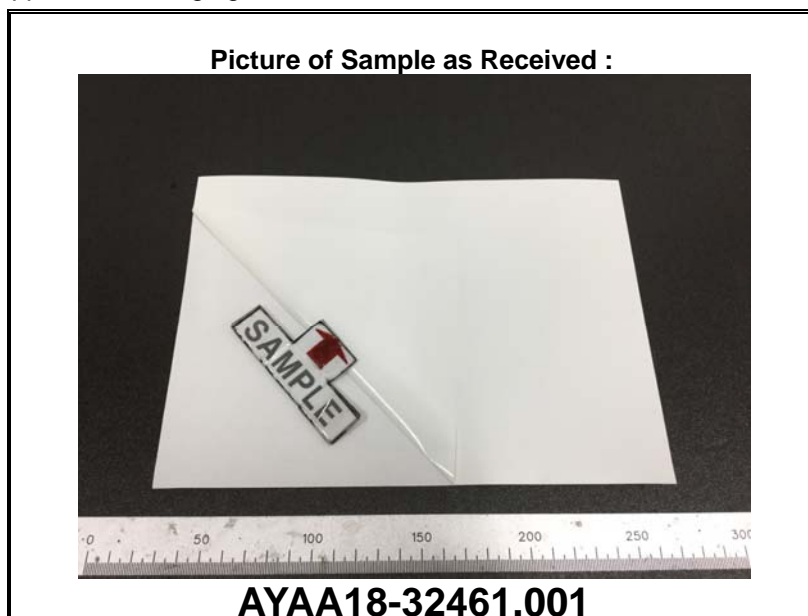
(Proposals to identify SVHC consulations)

4. \*.The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: [www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm](http://www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm)

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005 % is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium, chromium(VI), silicon, aluminum, zirconium, boron, and potassium respectively), except molybdenum RL=0.0005 %

0.1 % (w/w) = 1,000 ppm = 1,000 mg/kg



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

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