



**Test Report No. F690501/LF-CTSAYA07-21102** Issued Date: September 28, 2007 Page 1 of 3

To: **KUMHO PETROCHEMICAL.**  
#45-25  
Seongam-dong  
Nam-gu  
ULSAN  
Korea

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

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**Product Name** : SAN-350  
**SGS File No.** : AYA07-21102  
**Received Date** : September 19, 2007  
**Test Performing Date** : September 20, 2007  
**Test Performed** : SGS Testing Korea tested the sample(s) selected by applicant with following results  
**Test Requested** : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives  
**Test Method** : With reference to **IEC 62321, Ed. 111/54/CDV**  
Procedures for the Determination of Levels of Regulated Substances in  
Electro Technical Products  
  
(1) Determination of Cadmium by ICP/ AAS  
(2) Determination of Lead by ICP/ AAS  
(3) (Determination of Mercury by ICP/ CV-AAS  
(4) Determination of Hexavalent Chromium by UV-Vis.  
(5) Determination of Hexavalent Chromium by Colorimetric Method  
(6) Determination of PBB and PBDE by GC/MS  
  
**Test Result(s)** : Please refer to next page(s).  
**Conclusion** : Based on the performed tests on submitted samples, the result **complies with the**  
RoHS Directive 2002/95/EC and its subsequent amendments.

**SGS Testing Korea Co., Ltd.**

**Pluto Kim**  
**Monet Jeong**  
**Billy Oh/Testing Person**

**Jeff Jang / Technical Mgr**

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**Sample No.** : AYA07-21102.001  
**Sample Description** : SAN-350  
**Item / Part No.** : N/A  
**Comments** : Material is SAN

Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to page1)	Result	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D	0.5	100
Lead (Pb)	(2)	N.D	5	1000
Mercury (Hg)	(3)	N.D	2	1000
Hexavalent Chromium (CrVI)	(4)	N.D	1	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(5)	---	See Note 5	#
<b>Sum of PBBs</b>	(6)	N.D	-	1000
Monobromobiphenyl		N.D	5	-
Dibromobiphenyl		N.D	5	-
Tribromobiphenyl		N.D	5	-
Tetrabromobiphenyl		N.D	5	-
Hexabromobiphenyl		N.D	5	-
Pentabromobiphenyl		N.D	5	-
Heptabromobiphenyl		N.D	5	-
Octabromobiphenyl		N.D	5	-
Nonabromobiphenyl		N.D	5	-
Decabromobiphenyl		N.D	5	-
<b>Sum of PBDEs (Note 4)</b>		N.D	-	1000
Monobromodiphenyl ether		N.D	5	-
Dibromodiphenyl ether		N.D	5	-
Tribromodiphenyl ether		N.D	5	-
Tetrabromodiphenyl ether		N.D	5	-
Pentabromodiphenyl ether		N.D	5	-
Hexabromodiphenyl ether		N.D	5	-
Heptabromodiphenyl ether		N.D	5	-
Octabromodiphenyl ether		N.D	5	-
Nonabromodiphenyl ether		N.D	5	-
Decabromodiphenyl ether		N.D	5	-
<b>Sum of PBDEs (Mono to Deca)</b>		N.D	-	-

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Note :

- 1 mg/kg = ppm
- 2 MDL = Method Detection Limit
- 3 N.D. = Not Detected = denoted less than reporting limit
- 4 Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- 5 Boiling-water-extraction:  
 Negative = < 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area = Absence of CrVI coating  
 Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with sample surface area.
- 6 # = Positive indicates the presence of Hexavalent Chromium on the tested areas and result be regarded as no comply with RoHS requirement.  
 Negative indicates the absence of CrVI on the tested areas and result be regarded as comply with RoHS requirement.
- 7 “-“ = Not Regulated
- 8 “---“ = Not Conducted



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