

Test Report No. SHAMLP2002843501 Date: 16 Mar 2020 Page 1 of 10

ZHANGJIAGANG FEITENG NEW COMPOSITE MATERIALS CO.,LTD

77 Huada Rd, Environmental & New Material Industry Park, Bonded Port Zone, Zhangjiagang City, Jiangsu China.

The following sample(s) was/were submitted and identified on behalf of the clients as: Aluminum-plastic

composite board

SGS Job No.: SHIN2003008394PC NJIN2003000496ML - SH

Product Specification: 1220mm*2440mm

Manufacturer: ZHANGJIAGANG FEITENG NEW COMPOSITE MATERIALS CO.,LTD

Date of Sample Received: 10 Mar 2020

Testing Period: 10 Mar 2020 - 16 Mar 2020

Test Requested: Selected test(s) as requested by client.

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Approved Signatory

Hele Lin





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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SHA20-028435.001	Black solid board with white veneer
SN2	SHA20-028435.002	Black solid board with silver / dark grey veneer
SN3	SHA20-028435.003	White solid board with red / purple veneer
SN4	SHA20-028435.004	Black solid board with black veneer

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, AAS, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1000	mg/kg	2	5	18	34
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Sum of PBBs	1000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	<u>002</u>	<u>003</u>
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	200	ND	140
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>		
Cadmium (Cd)	100	mg/kg	2	ND		
Lead (Pb)	1000	mg/kg	2	ND		
Mercury (Hg)	1000	mg/kg	2	ND		
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND		
Sum of PBBs	1000	mg/kg	-	ND		
Monobromobiphenyl	-	mg/kg	5	ND		
Dibromobiphenyl	-	mg/kg	5	ND		
Tribromobiphenyl	-	mg/kg	5	ND		
Tetrabromobiphenyl	-	mg/kg	5	ND		
Pentabromobiphenyl	-	mg/kg	5	ND		
Hexabromobiphenyl	-	mg/kg	5	ND		
Heptabromobiphenyl	-	mg/kg	5	ND		
Octabromobiphenyl	-	mg/kg	5	ND		
Nonabromobiphenyl	-	mg/kg	5	ND		
Decabromobiphenyl	-	mg/kg	5	ND		
Sum of PBDEs	1000	mg/kg	-	ND		
Monobromodiphenyl ether	-	mg/kg	5	ND		
Dibromodiphenyl ether	-	mg/kg	5	ND		
Tribromodiphenyl ether	-	mg/kg	5	ND		
Tetrabromodiphenyl ether	-	mg/kg	5	ND		
Pentabromodiphenyl ether	-	mg/kg	5	ND		
Hexabromodiphenyl ether	-	mg/kg	5	ND		
Heptabromodiphenyl ether	-	mg/kg	5	ND		
Octabromodiphenyl ether	-	mg/kg	5	ND		



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>		
Nonabromodiphenyl ether	-	mg/kg	5	ND		
Decabromodiphenyl ether	-	mg/kg	5	ND		
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND		
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND		
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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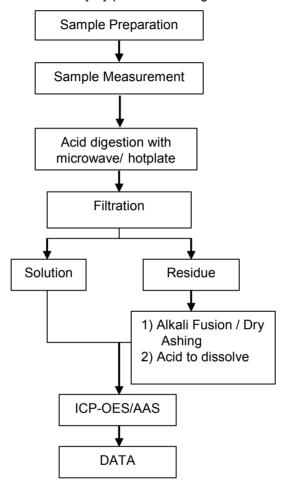
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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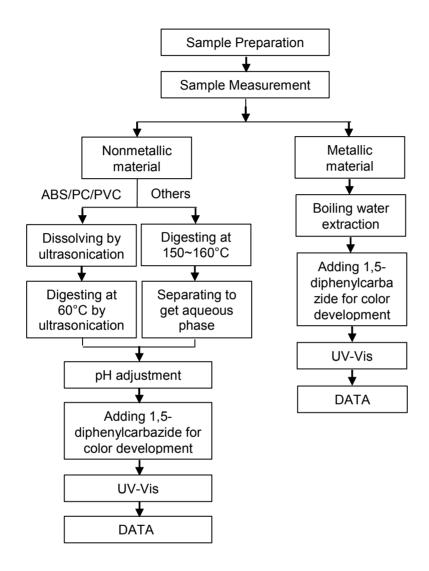


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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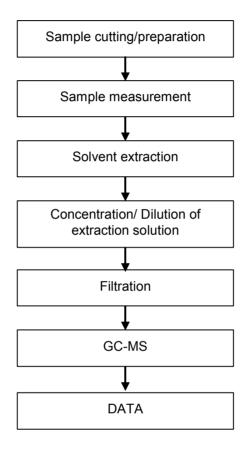
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PBBs/PBDEs Testing Flow Chart





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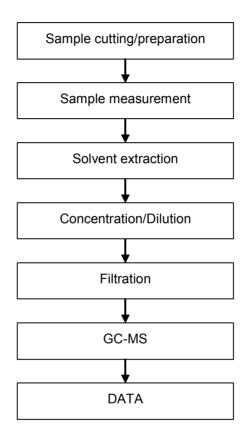
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Phthalates Testing Flow Chart





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