



Test Report

No.: T31620170557SC

Date: FEB 11, 2016

Page 1 of 7

JET TEC ASIA LTD.
UNIT 1401-1402, FASHION CENTRE, 51-53 WING HONG STREET, LAI CHI KOK, KOWLOON, HONG KONG

The following samples were submitted and identified on behalf of the client as:

3D FILAMENT

SGS Case No. : CA316201725209
Manufacturer : JET TEC ASIA LIMITED
Country of Origin : CHINA
Country of Destination : GLOBAL
Sample Receiving Date : JAN 28, 2016
Test Performing Date : JAN 28 – FEB 11, 2016

Test Requested : Please refer to the result summary.

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

Result Summary :

Test Requested	Conclusion
1. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments	--
a) Cadmium content	PASS
b) Organostannic compounds content	PASS
c) Phthalates content	PASS
d) Polycyclic Aromatic Hydrocarbons (PAHs) content	PASS
2. European Regulation (EC) No. 850/2004 and its amendments – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
3. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC	PASS

Signed for and on behalf of
SGS Hong Kong Ltd.

Che Wai Leuk, Jerry
Technical Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Test Report

No.: T31620170557SC

Date: FEB 11, 2016

Page 2 of 7

Test Results :

1. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments

a) Cadmium content

Method : With reference to EN 1122:2001, Method B

For Plastic

Test Item	Result (%)	Reporting Limit (%)	Permissible Limit (%)
	1		
Cadmium (Cd)	ND	0.0005	0.01
Comment	PASS	--	--

Sample Description :

1. Blue Plastic

Note : 1. % = percentage by weight
2. ND = Not Detected

b) Organostannic compounds content

Method : Solvent extraction, followed by analysis using Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item	Result (%)	Reporting Limit (%)	Permissible Limit (%)
	1		
Tri-substituted Organostannic Compounds (as Tin)	ND	0.01	0.1
Dibutyltin (DBT) Compounds (as Tin)	ND	0.01	0.1
Comment	PASS	--	--

Sample Description :

1. Blue Plastic

Note : 1. % = percentage by weight
2. * = Tri-substituted Organostannic compounds include Tributyltin (TBT) compounds, Triphenyltin (TPHT) compounds, Tripropyltin (TPT) compounds, Tricyclohexyltin (TCyT) compounds and Trioctyltin (TOT) compounds.
3. ND = Not Detected

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Report

No.: T31620170557SC

Date: FEB 11, 2016

Page 3 of 7

Test Results (Cont'd) :

c) Phthalates content

Method : With reference to CPSC-CH-C1001-09.3. Analysis was performed by Gas Chromatography / Mass Spectrometry

Test Item	Result (%)		Reporting Limit (%)	Permissible Limit (%)
	1			
Dibutyl Phthalate (DBP)	ND		0.003	--
Benzylbutyl Phthalate (BBP)	ND		0.003	--
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND		0.003	--
DBP + BBP + DEHP	ND		--	0.1
Diisononyl Phthalate (DINP)	ND		0.010	--
Di-n-octyl Phthalate (DNOP)	ND		0.003	--
Diisodecyl Phthalate (DIDP)	ND		0.010	--
DINP + DNOP + DIDP	ND		--	0.1
Comment	PASS		--	--

Sample Description :

1. Blue Plastic

Note : 1. % = percentage by weight

2. ND = Not Detected

Remark : Results shown as ND are ignored in the sum calculation

Test Report

No.: T31620170557SC

Date: FEB 11, 2016

Page 4 of 7

Test Results (Cont'd) :

d) Polycyclic Aromatic Hydrocarbons (PAHs) content

Method : With reference to AfPS GS 2014:01 PAK.. Analysis was conducted by Gas Chromatography-Mass Spectrometry.

For articles other than toys, including activity toys and childcare articles

Test Item	CAS Number	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
1. Benz[a]anthracene	56-55-3	ND	0.1	1
2. Chrysene	218-01-9	ND	0.1	1
3. Benzo[b]fluoranthene	205-99-2	ND	0.1	1
4. Benzo[k]fluoranthene	207-08-9	ND	0.1	1
5. Benzo[j]fluoranthene	205-82-3	ND	0.1	1
6. Benzo[a]pyrene	50-32-8	ND	0.1	1
7. Benzo[e]pyrene	192-97-2	ND	0.1	1
8. Dibenz[a,h]anthracene	53-70-3	ND	0.1	1
Comment	--	PASS	--	--

Sample Description :

1. Blue Plastic

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. Conclusion is based on the limit specified by Commission Regulation (EU) No 1272/2013 amending Annex XVII to Regulation (EC) No 1907/2006 effective after 27 December 2015.

Test Report

No.: T31620170557SC

Date: FEB 11, 2016

Page 5 of 7

Test Results (Cont'd) :

2. European Regulation (EC) No. 850/2004 and its amendments – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Method : With reference to ISO 18219: 2015. Analysis was performed by GC-NCI-MS / GC-ECD.

Articles (Accessible components):

Test Item	Result (%)	Reporting Limit (%)	Permissible Limit (%)
	1		
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	ND	0.005	0.15
Comment	PASS	--	--

Sample Description :

1. Blue Plastic

- Note:
1. % = percentage by weight
 2. ND = Not Detected
 3. The limit is quoted from Regulation (EU) No. 2015/2030.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Results (Cont'd) :

3. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC
Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method : With reference to IEC 62321:2008, IEC 62321-4:2013, IEC62321-5:2013. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry, Chromium (VI) was analyzed by UV-Visible Spectroscopy and PBB, PBDE were analyzed by Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1			
Cadmium (Cd)	ND		5	100
Lead (Pb)	ND		5	1000
Mercury (Hg)	ND		5	1000
Hexavalent Chromium (Cr(VI))	ND		5	1000
Sum of PBBs	ND		--	1000
Monobromobiphenyl	ND		5	--
Dibromobiphenyl	ND		5	--
Tribromobiphenyl	ND		5	--
Tetrabromobiphenyl	ND		5	--
Pentabromobiphenyl	ND		5	--
Hexabromobiphenyl	ND		5	--
Heptabromobiphenyl	ND		5	--
Octabromobiphenyl	ND		5	--
Nonabromobiphenyl	ND		5	--
Decabromobiphenyl	ND		5	--
Sum of PBDEs	ND		--	1000
Monobromodiphenyl ether	ND		5	--
Dibromodiphenyl ether	ND		5	--
Tribromodiphenyl ether	ND		5	--
Tetrabromodiphenyl ether	ND		5	--
Pentabromodiphenyl ether	ND		5	--
Hexabromodiphenyl ether	ND		5	--
Heptabromodiphenyl ether	ND		5	--
Octabromodiphenyl ether	ND		5	--
Nonabromodiphenyl ether	ND		5	--
Decabromodiphenyl ether	ND		5	--
Comment	PASS		--	--

Sample Description:

- Blue Plastic

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-for-Electronic-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Report

No.: T31620170557SC

Date: FEB 11, 2016

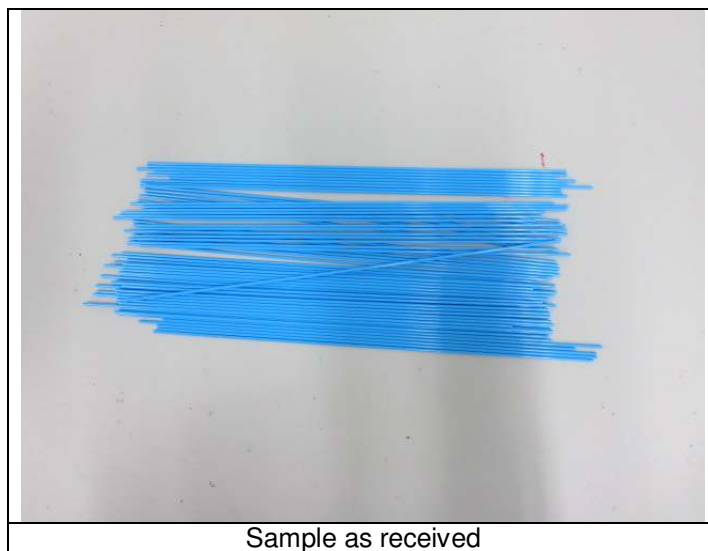
Page 7 of 7

Test Results (Cont'd) :

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected

Remark : 1. Results shown as ND are ignored in the sum calculation

Photo Appendix



*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.