



## Test Report

No.: T31620170553SC

Date: FEB 12, 2016

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JET TEC ASIA LIMITED  
UNIT 1401-1402, 14/F., FASHION CENTRE, NO. 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. : CA316201725159  
Manufacturer : JET TEC ASIA LTD  
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
<b>1. European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments</b>	--
a) Cadmium content	PASS
b) Organostannic compounds content	PASS
c) Phthalates content	PASS
d) Polycyclic Aromatic Hydrocarbons (PAHs) content	PASS
<b>2. European Regulation (EC) No. 850/2004 and its amendments – Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)</b>	PASS
<b>3. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC</b>	PASS

Signed for and on behalf of  
SGS Hong Kong Ltd.

Che Wai Leuk, Jerry  
Technical Manager

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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
<b>Comment</b>	PASS	--	--

#### Sample Description :

1. Orange 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
<b>Comment</b>	PASS	--	--

#### Sample Description :

1. Orange 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

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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
<b>Comment</b>	PASS		--	--

Sample Description :

1. Orange Plastic

Note : 1. % = percentage by weight

2. ND = Not Detected

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

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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
<b>Comment</b>	--	<b>PASS</b>	--	--

### Sample Description :

1. Orange 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.

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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
<b>Comment</b>	PASS	--	--

Sample Description :

1. Orange Plastic

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

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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
<b>Sum of PBBs</b>	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	--
<b>Sum of PBDEs</b>	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	--
<b>Comment</b>	PASS		--	--

**Sample Description:**

- Orange Plastic

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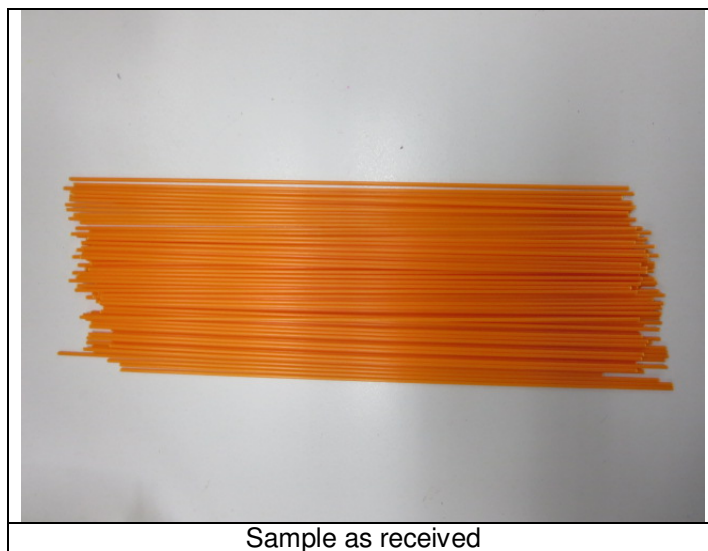
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Test Results (Cont'd) :

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 \*\*\*

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